

FIG.1

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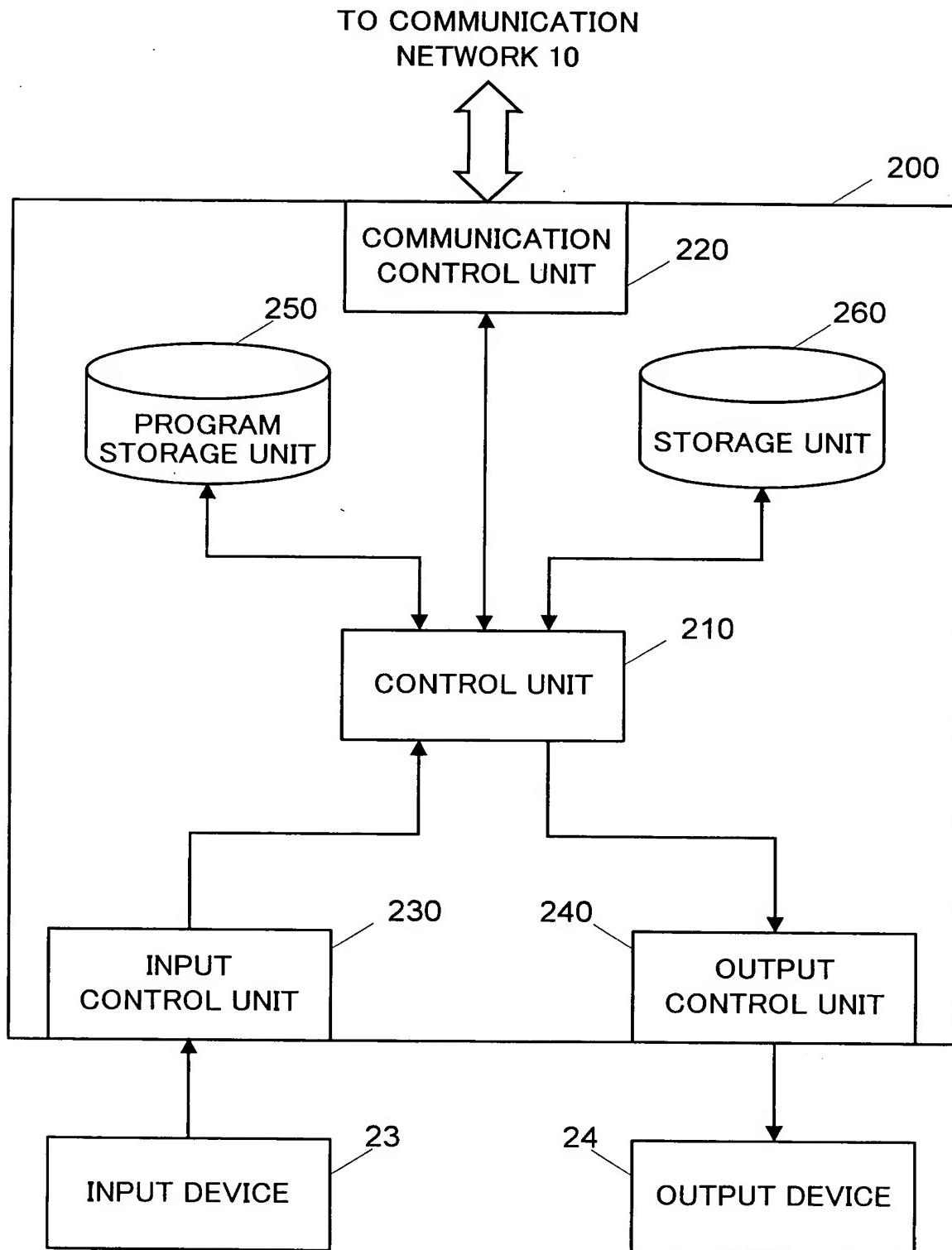
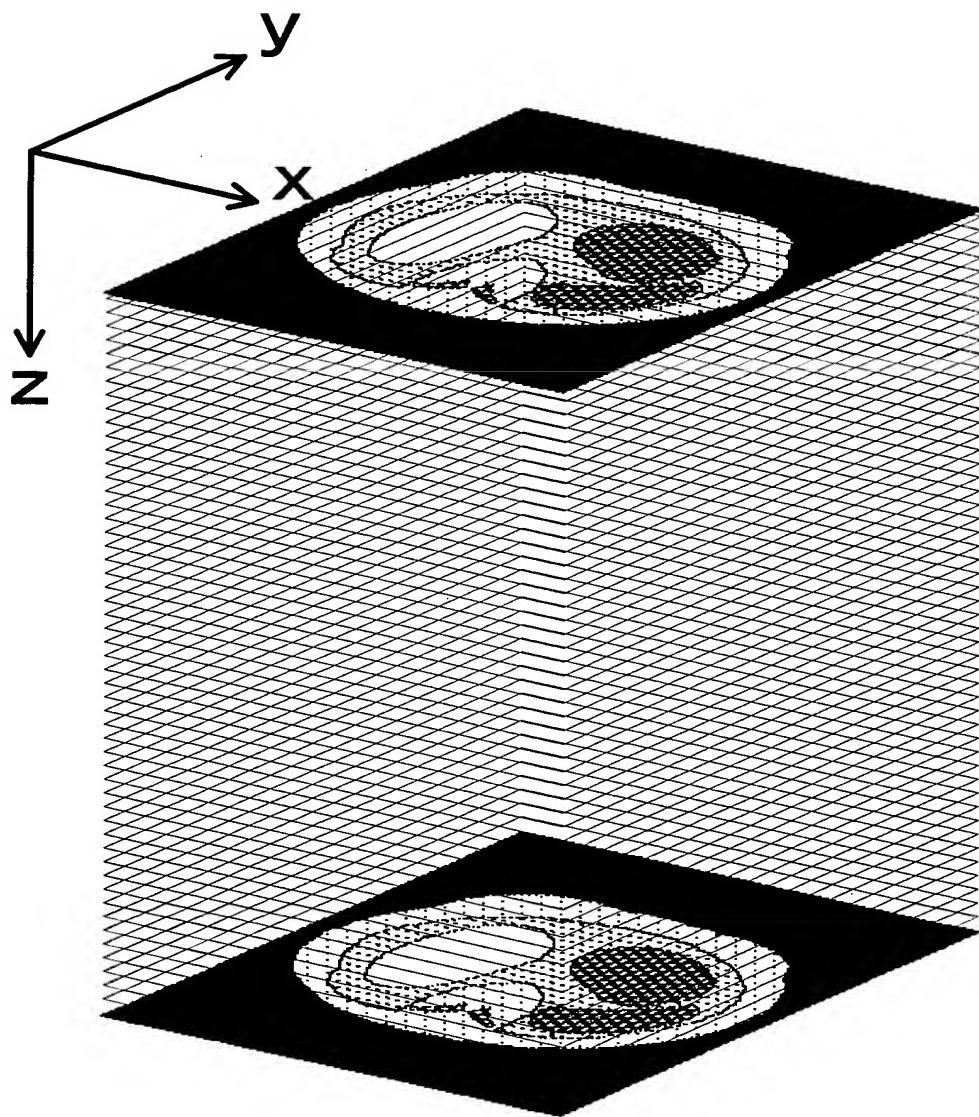


FIG.2

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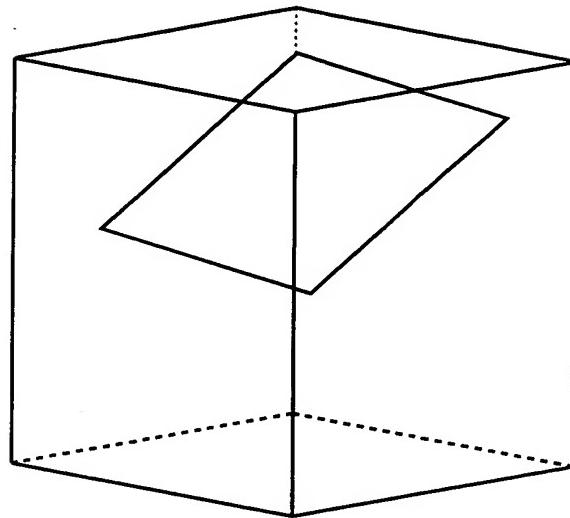


SLICE IMAGE

BEST AVAILABLE COPY

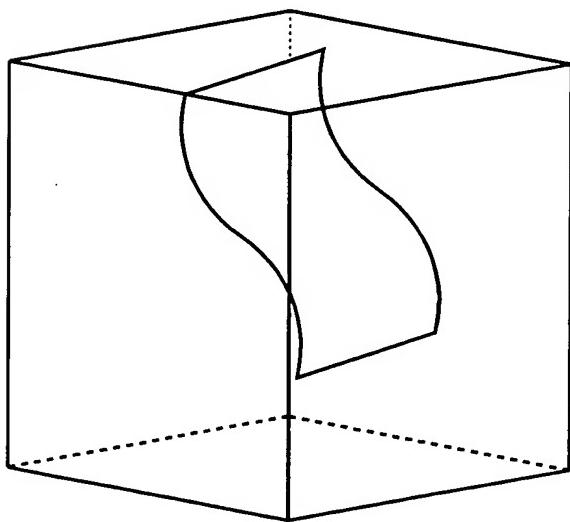
FIG.3

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MPR

FIG.4A



CPR

FIG.4B

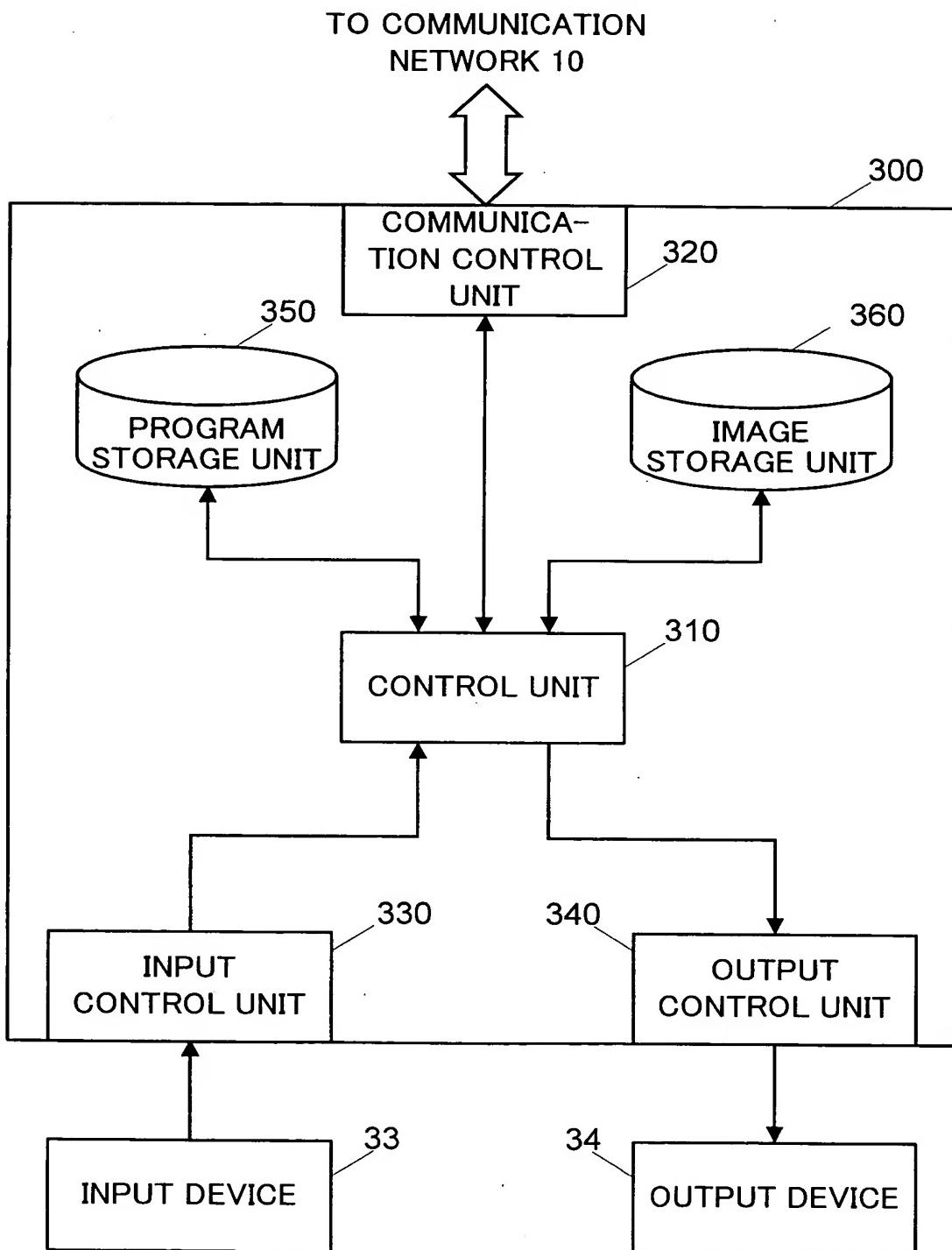


FIG.5

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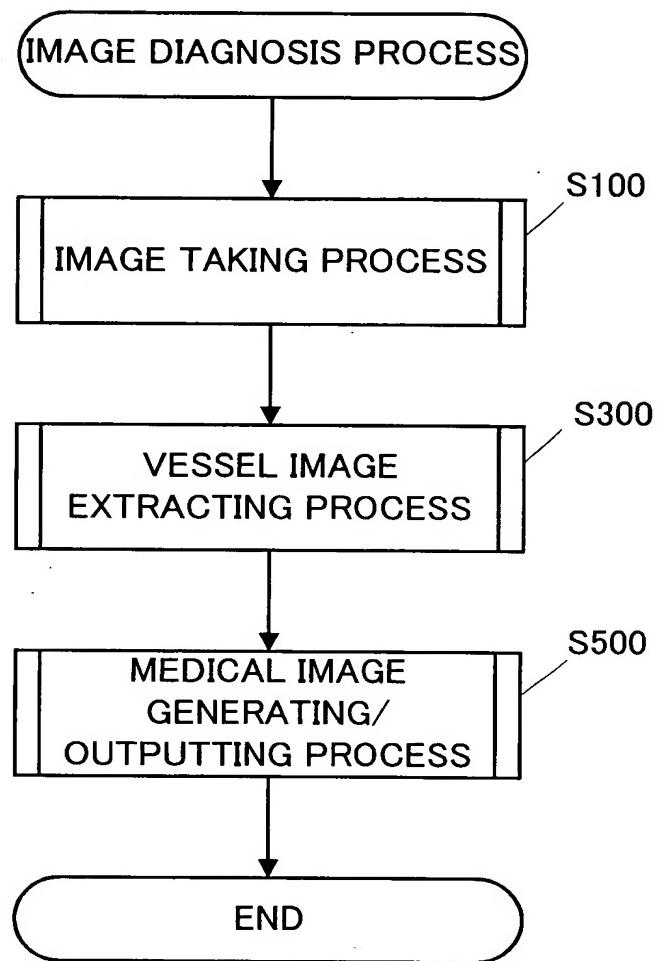


FIG.6

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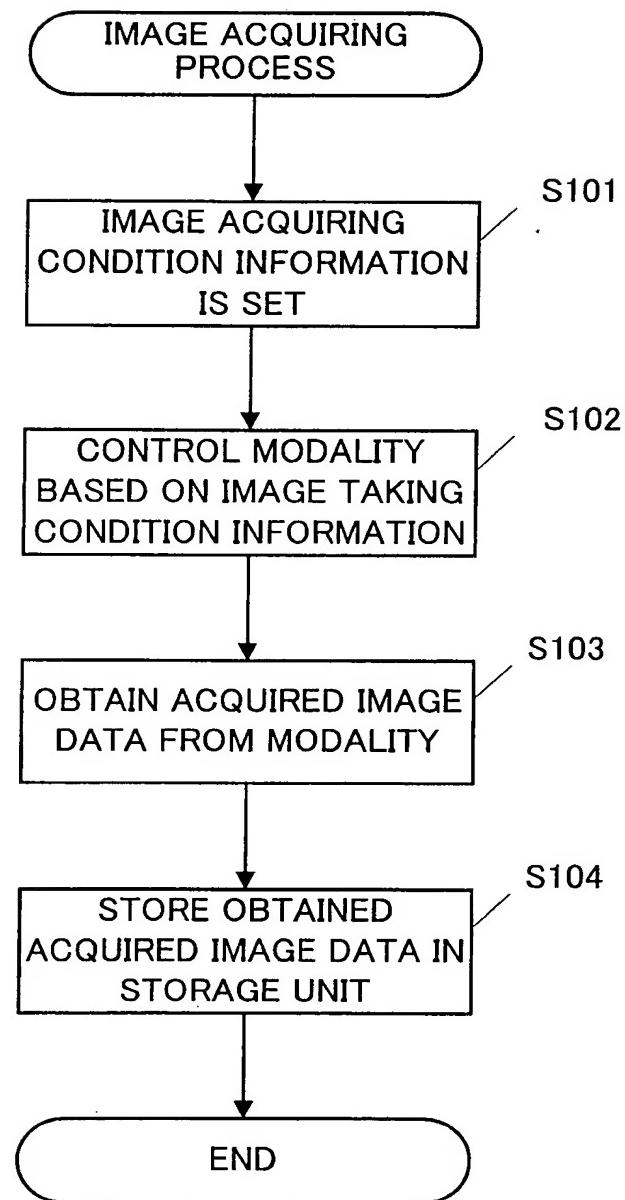


FIG.7

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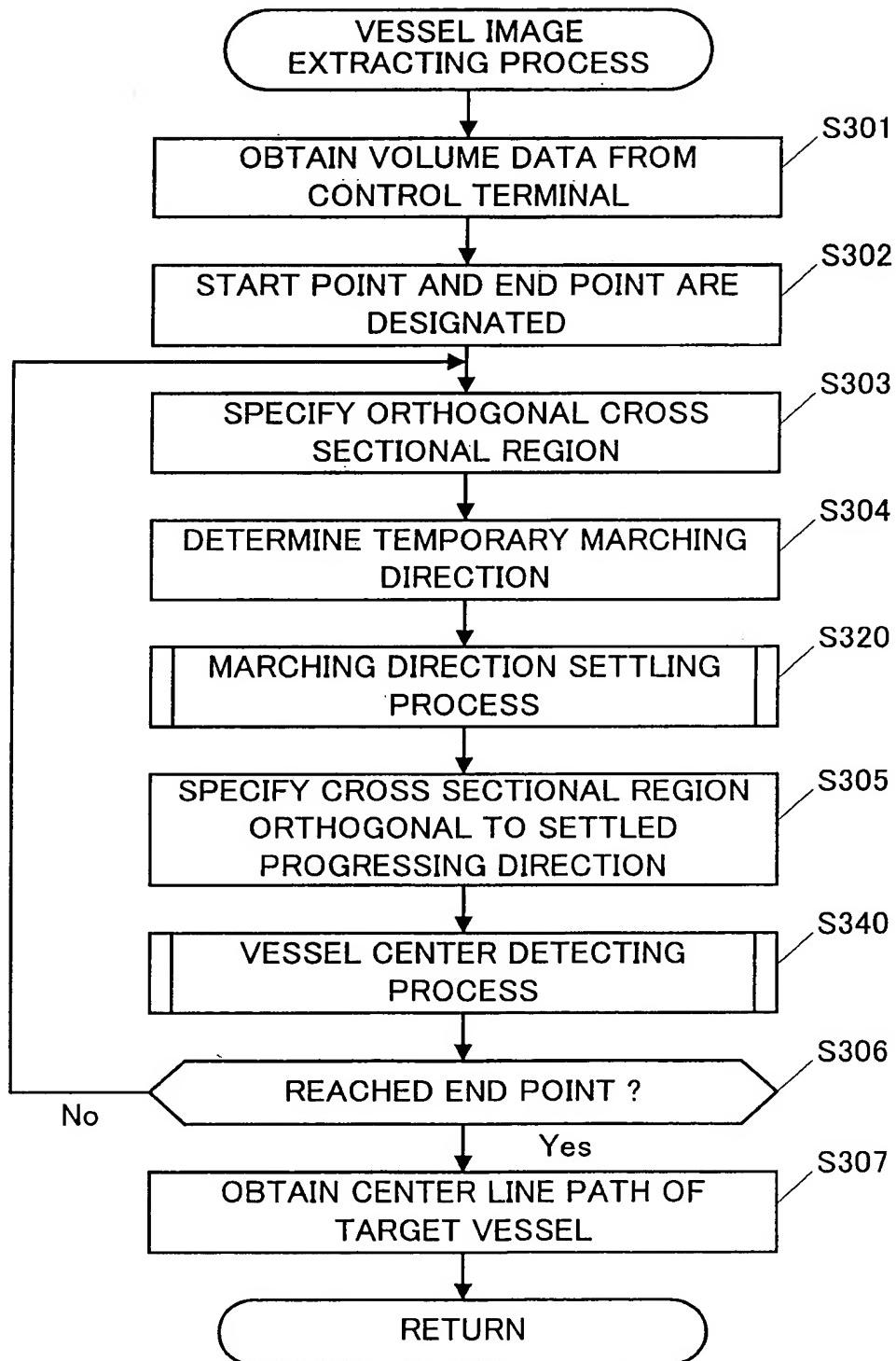


FIG.8

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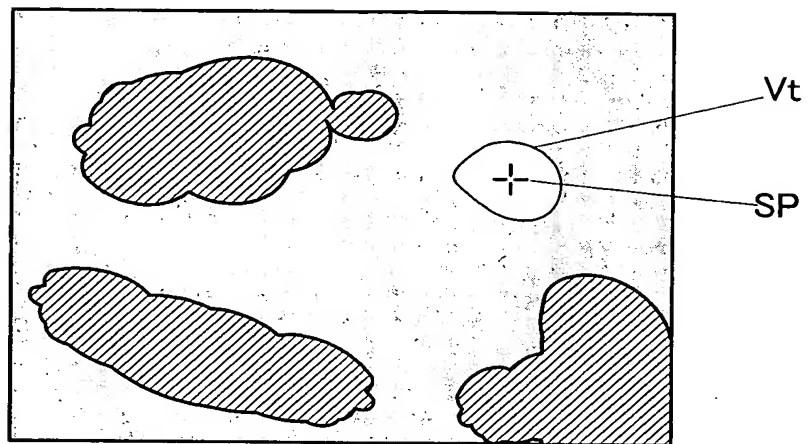


FIG.9A

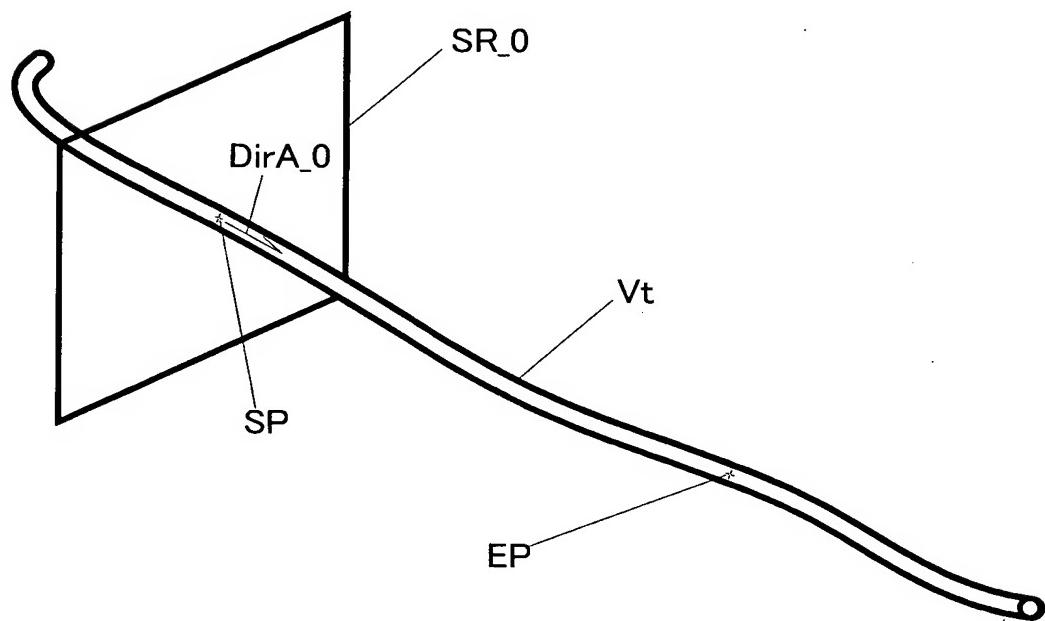


FIG.9B

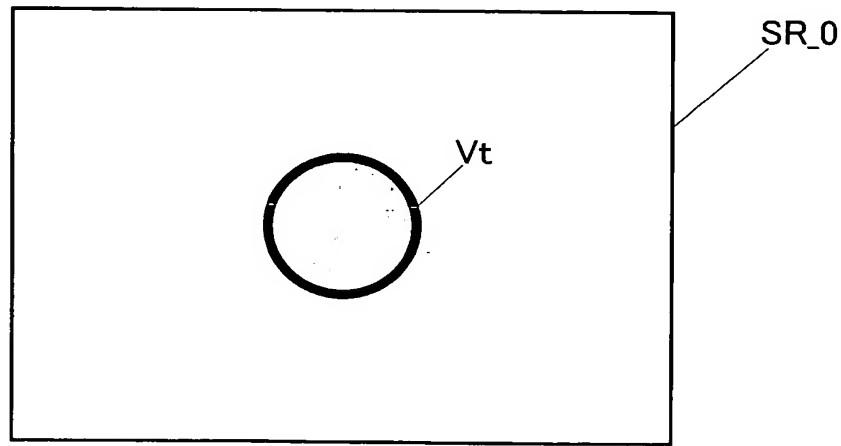


FIG.9C

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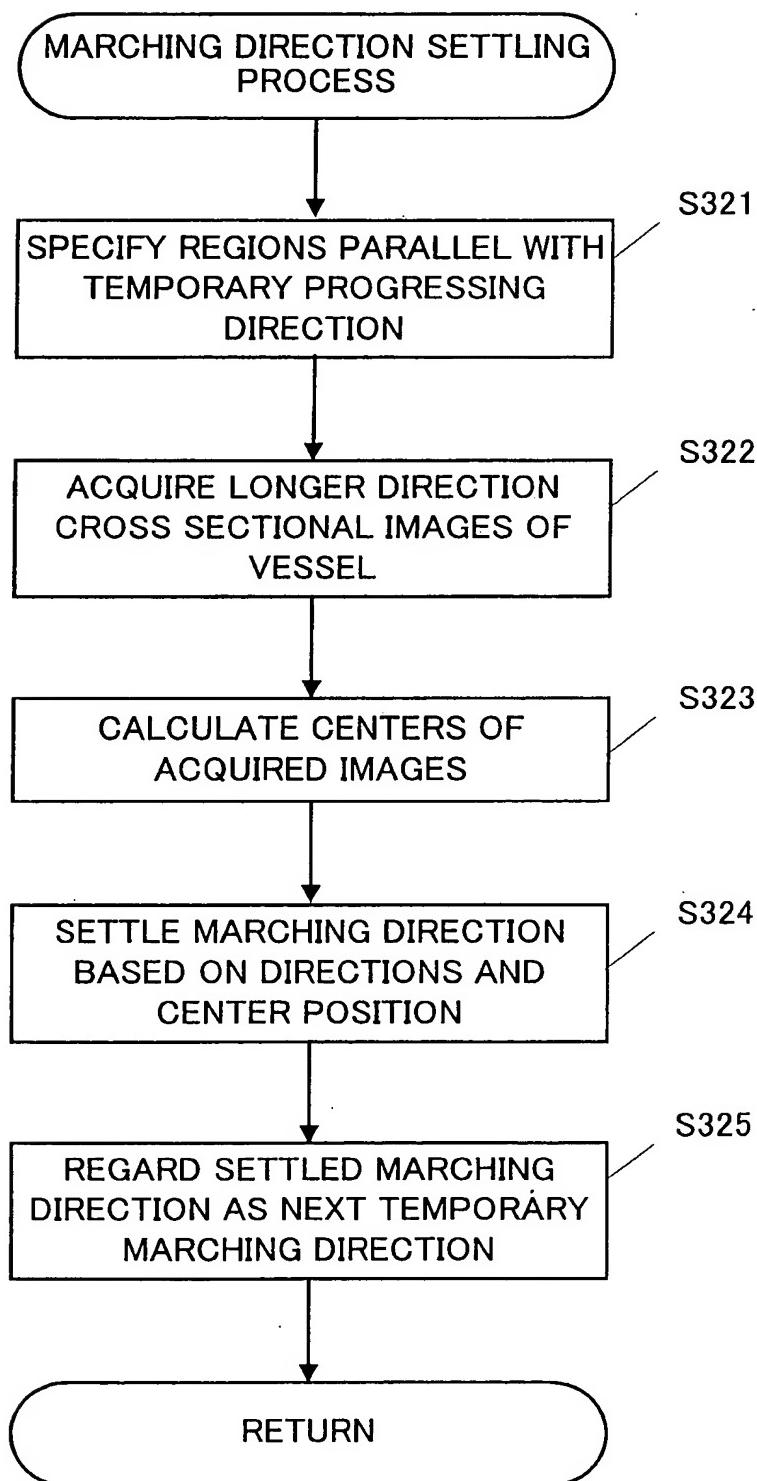


FIG.10

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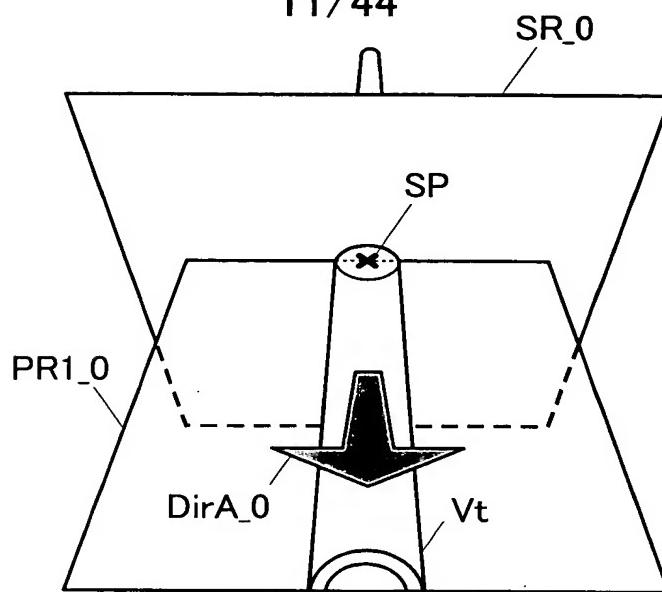


FIG.11A

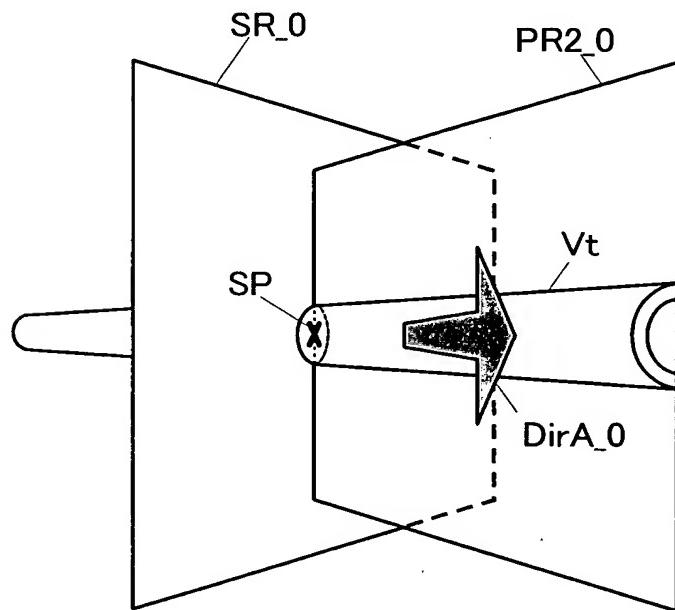


FIG.11B

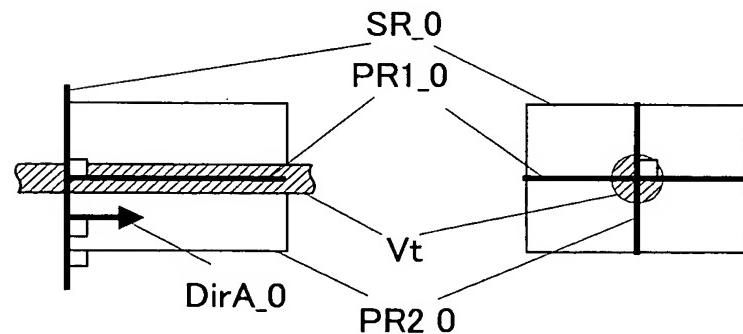


FIG.11C

FIG.11D

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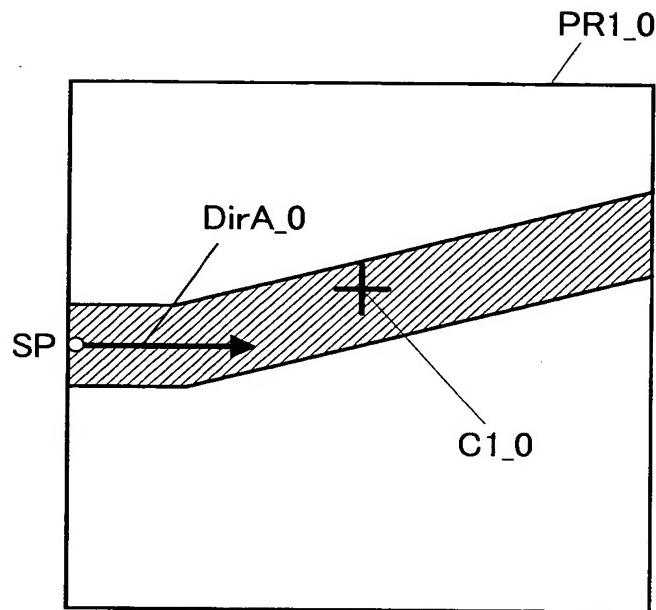


FIG.12A

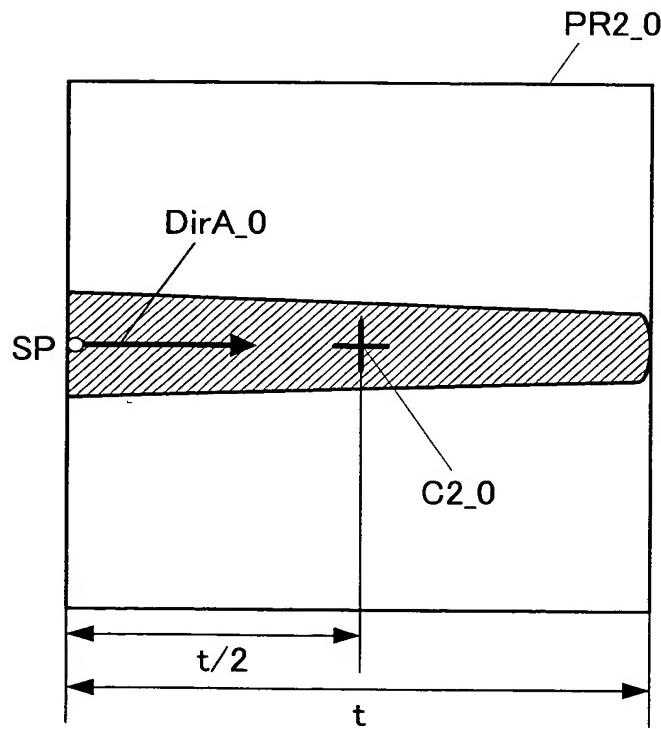


FIG.12B

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## MARCHING (ADVANCING, PROGRESSING) DIRECTION SETTLING FORMULAE

n 1 : UNIT VECTOR PARALLEL TO TEMPORARY MARCHING DIRECTION DirA  
n 2 : UNIT VECTOR PERPENDICULAR TO REGION PR1  
n 3 : UNIT VECTOR PERPENDICULAR TO REGION PR2  
 $v_2$  : POSITION VECTOR OF CENTER POSITION ON REGION PR1  
 $v_3$  : POSITION VECTOR OF CENTER POSITION ON REGION PR2

IN CASE OF  $v_2 \cdot n_1 > v_3 \cdot n_1$

VECTOR TO NEXT POSITION =  $v_2' \cdot n_1 * n_1 + v_2 \cdot n_3 * n_3 + v_3 \cdot n_2 * n_2$

WHERE  $v_2' = v_3 \cdot n_1 / v_2 \cdot n_1 * v_2$

IN CASE OF  $v_2 \cdot n_1 \leq v_3 \cdot n_1$

VECTOR TO NEXT POSITION =  $v_2 \cdot n_1 * n_1 + v_2 \cdot n_3 * n_3 + v_3' \cdot n_2 * n_2$

WHERE  $v_3' = v_2 \cdot n_1 / v_3 \cdot n_1 * v_3$

(  
• REPRESENTS INNER PRODUCT OF VECTORS  
\* REPRESENTS OUTER PRODUCT OF VECTORS  
)

FIG.13

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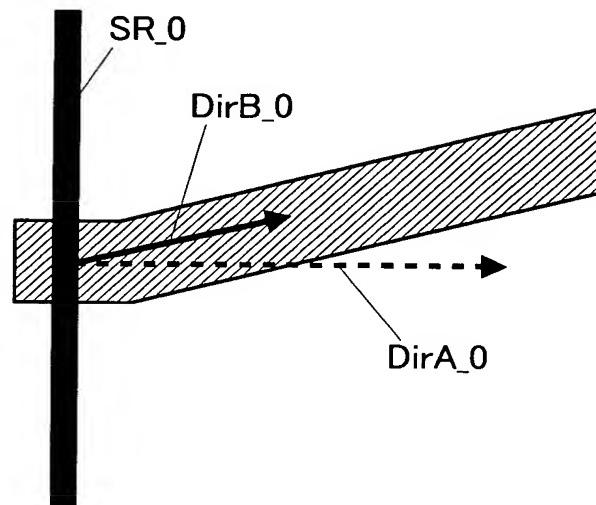


FIG.14A

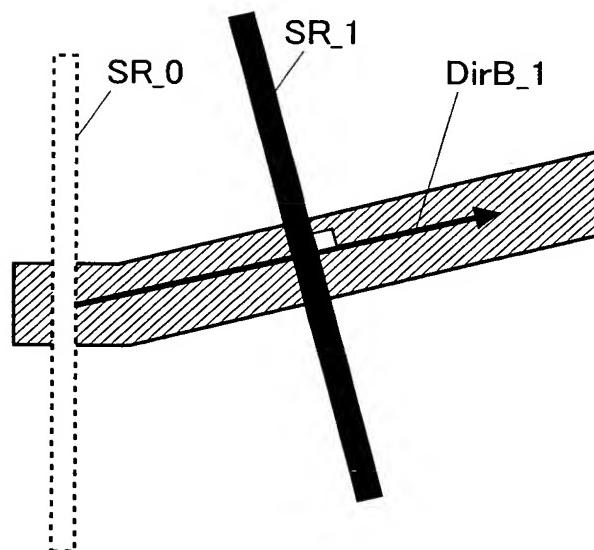


FIG.14B

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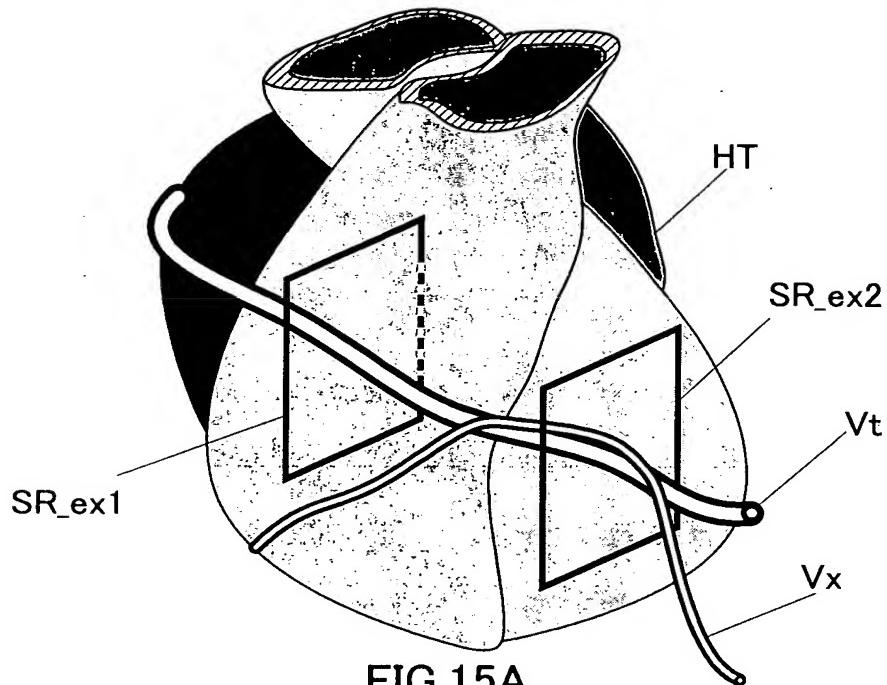


FIG.15A

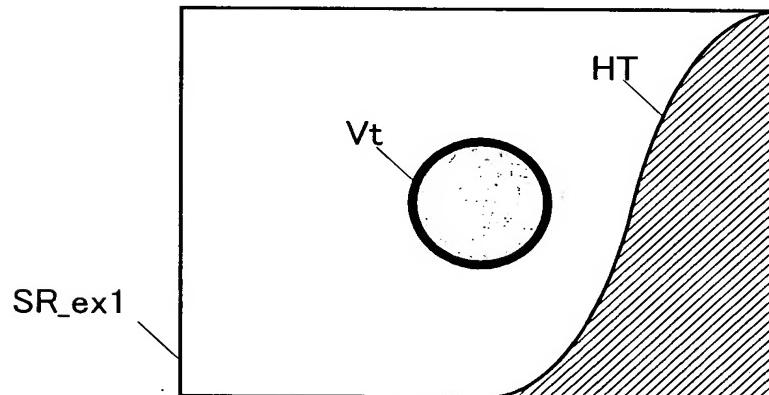


FIG.15B

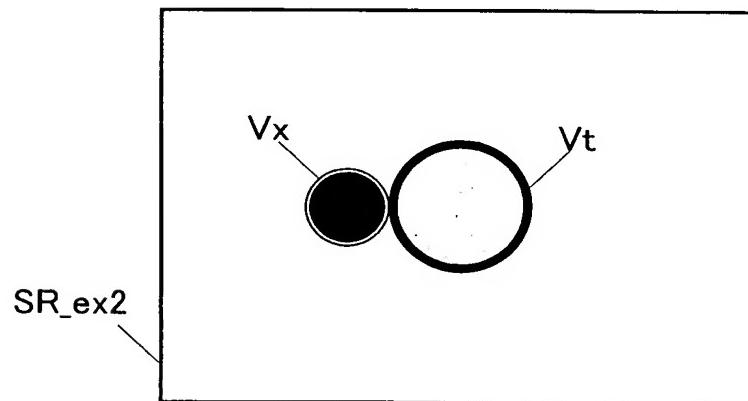


FIG.15C

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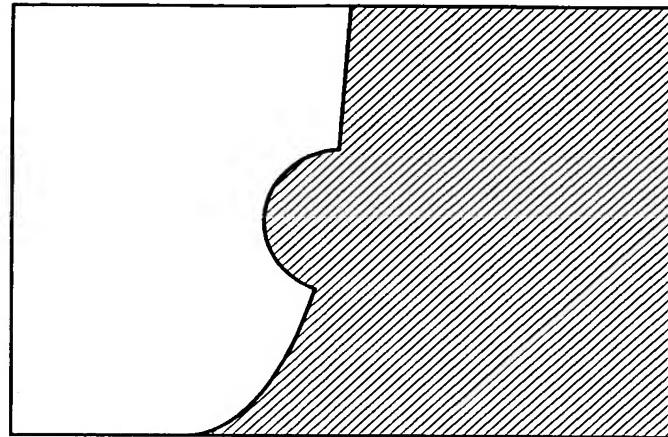


FIG.16A

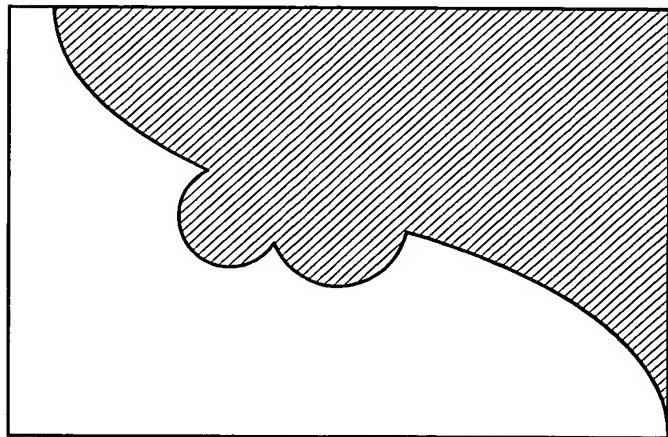


FIG.16B

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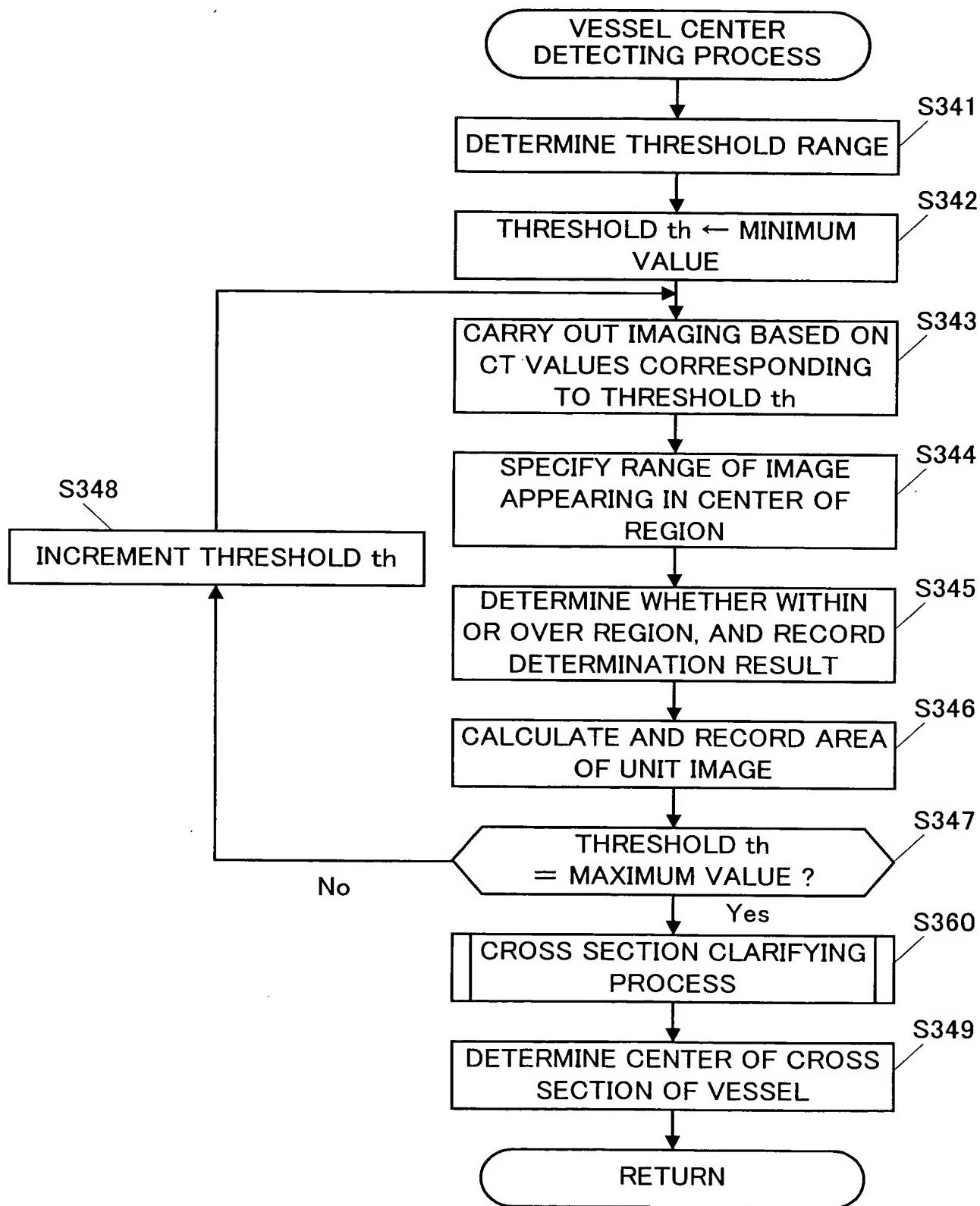


FIG.17

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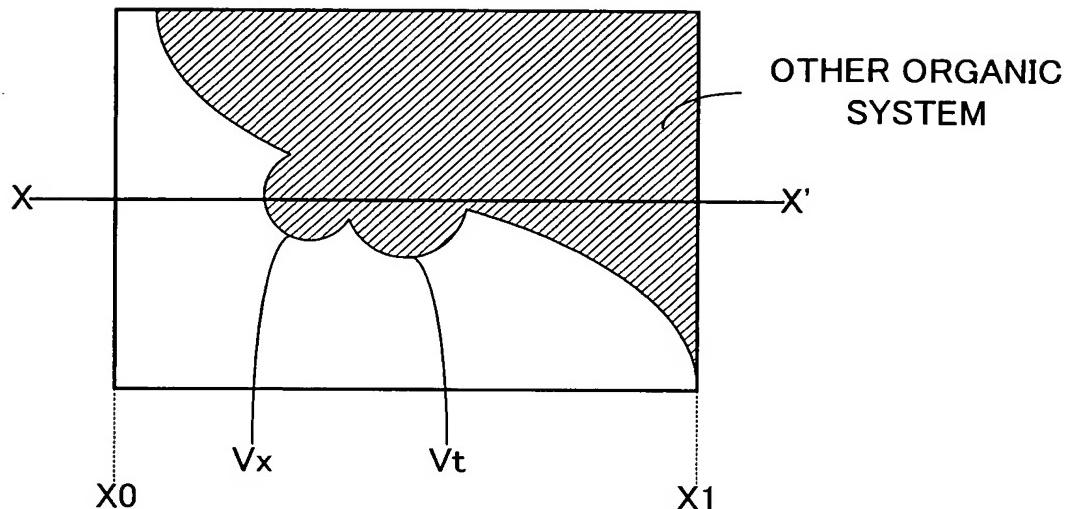


FIG.18A

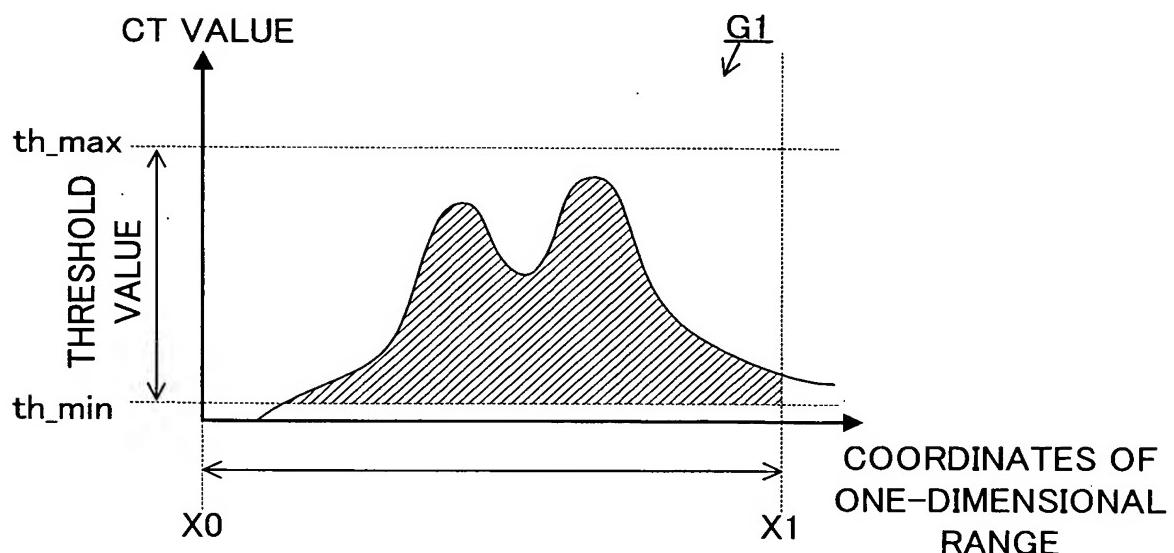


FIG.18B

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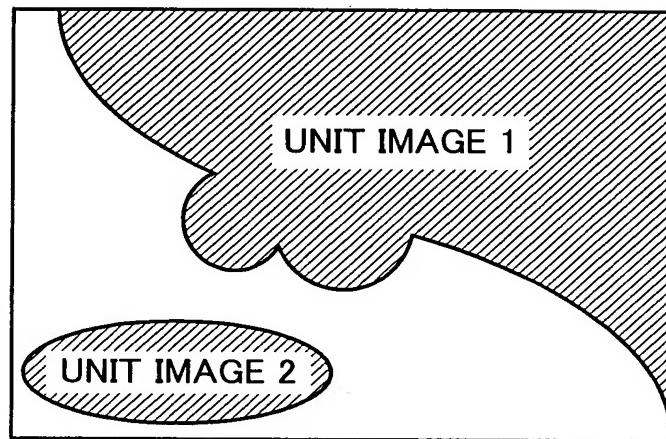


FIG.19A

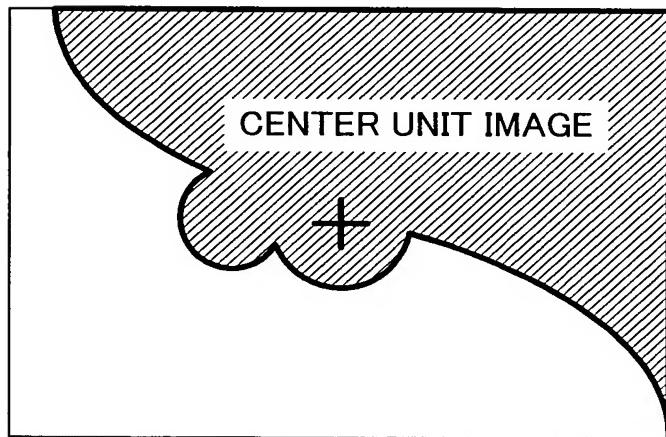


FIG.19B

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THRESHOLD ATTRIBUTE TABLE

THRESHOLD	WITHIN REGION ?	AREA VALUE
th_min	NO	1000
th_min+1	NO	900
th_min+2	NO	800
th_min+3	NO	700
:	:	:
th_max-3	YES	30
th_max-2	YES	20
th_max-1	YES	10
th_max	YES	0

FIG.20

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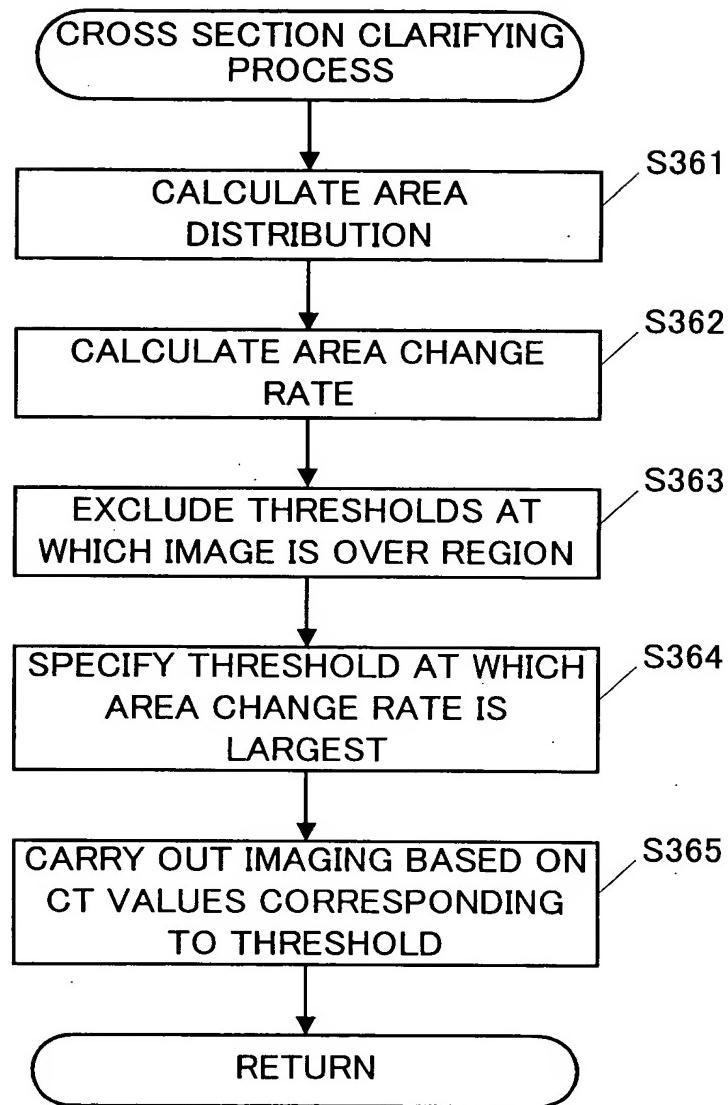


FIG.21

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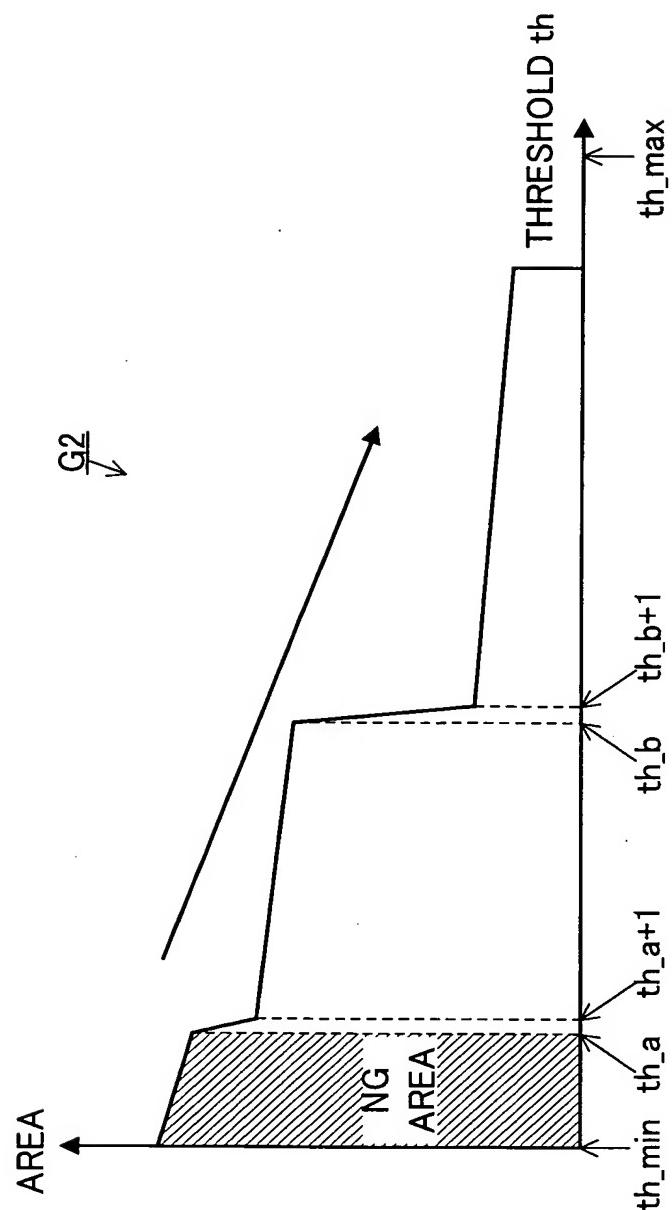


FIG.22

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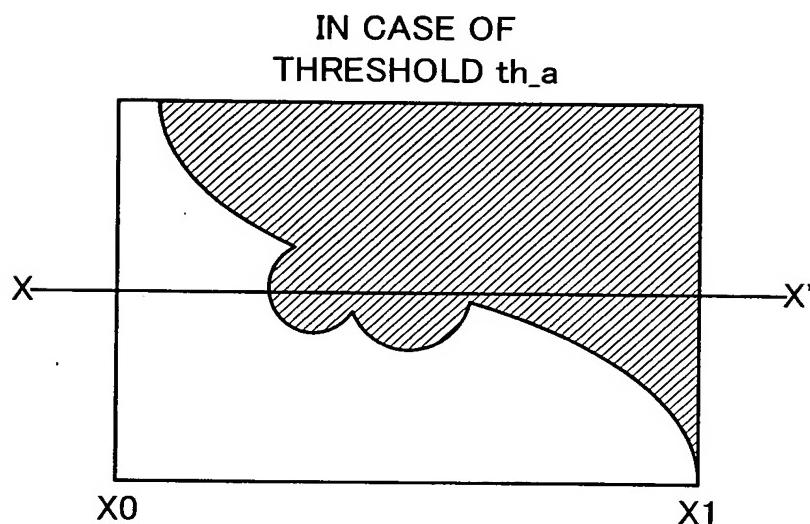


FIG.23A

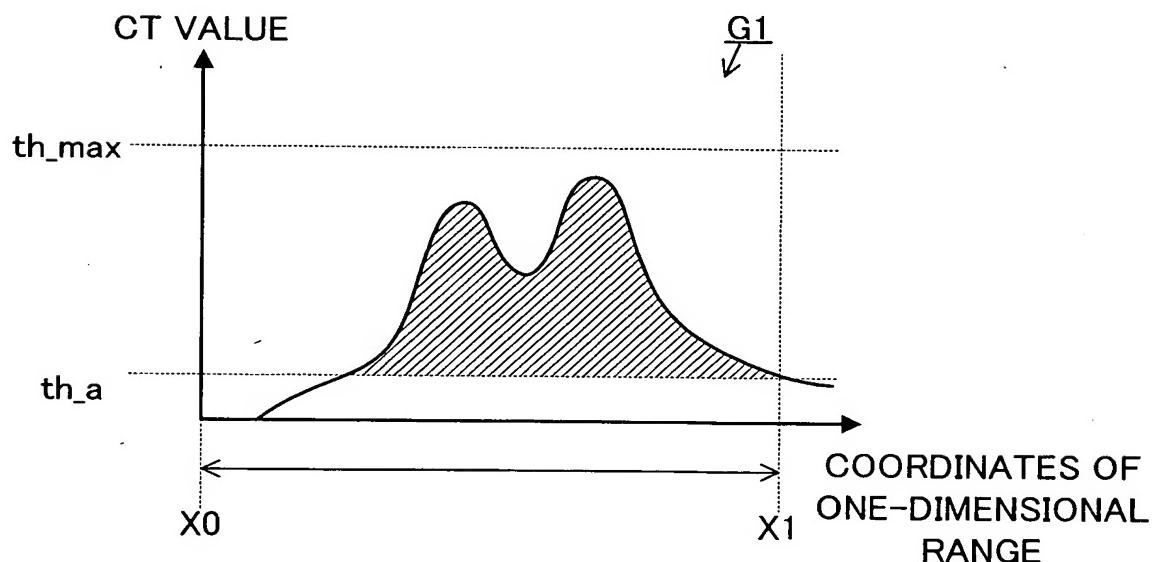


FIG.23B

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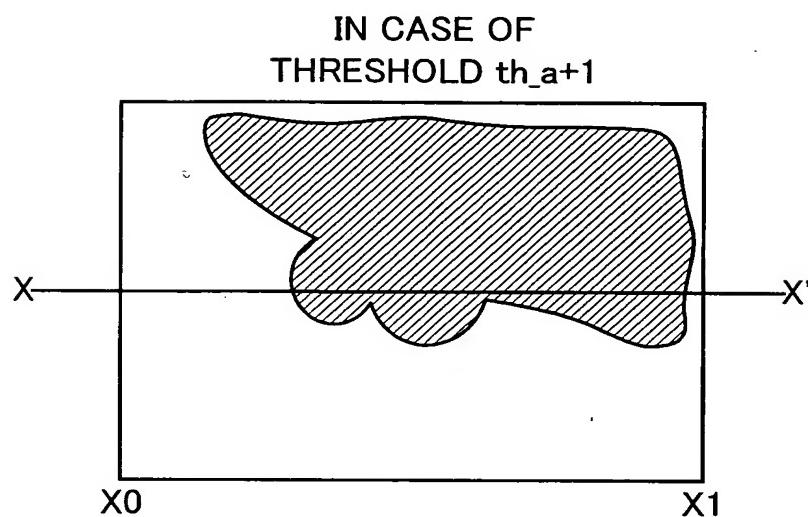


FIG.24A

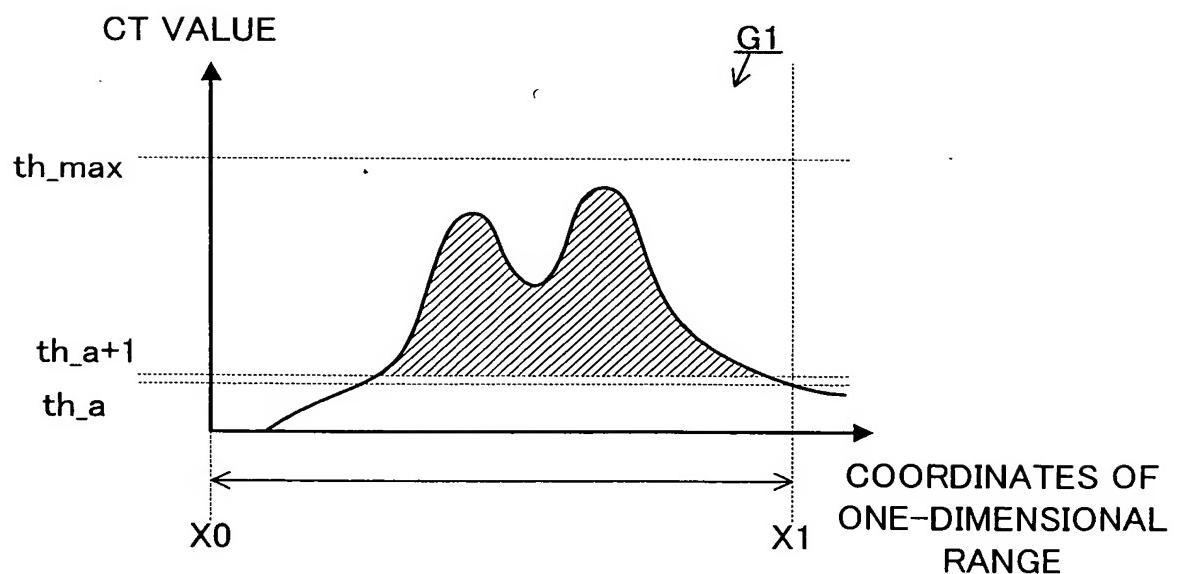


FIG.24B

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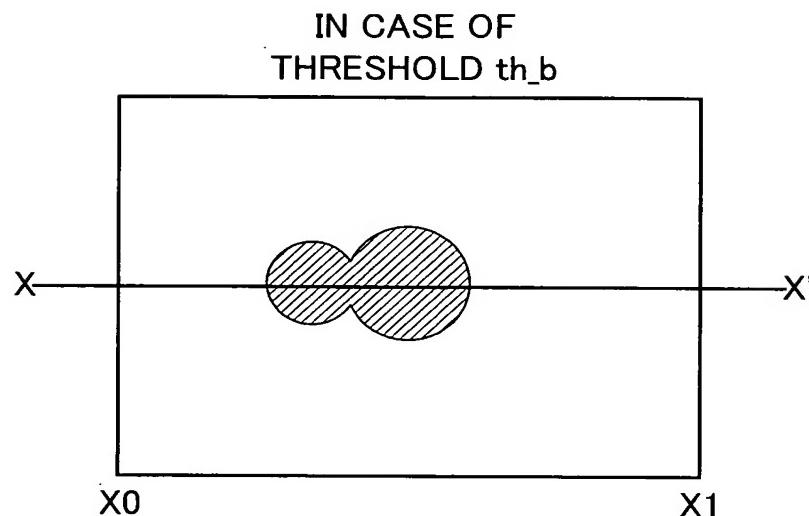


FIG.25A

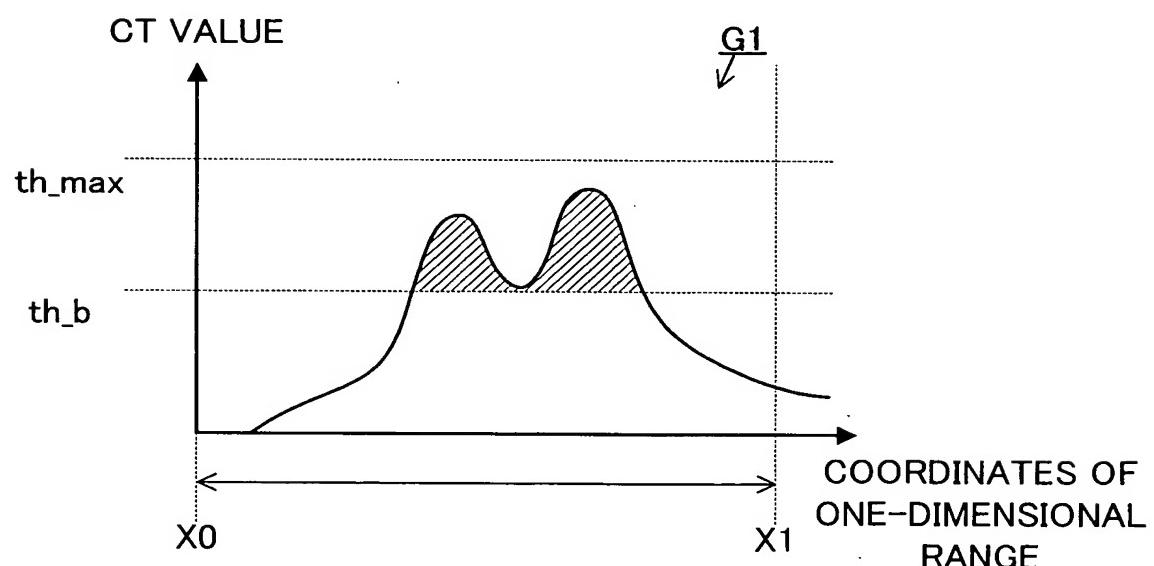


FIG.25B

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IN CASE OF  
THRESHOLD  $th_{b+1}$

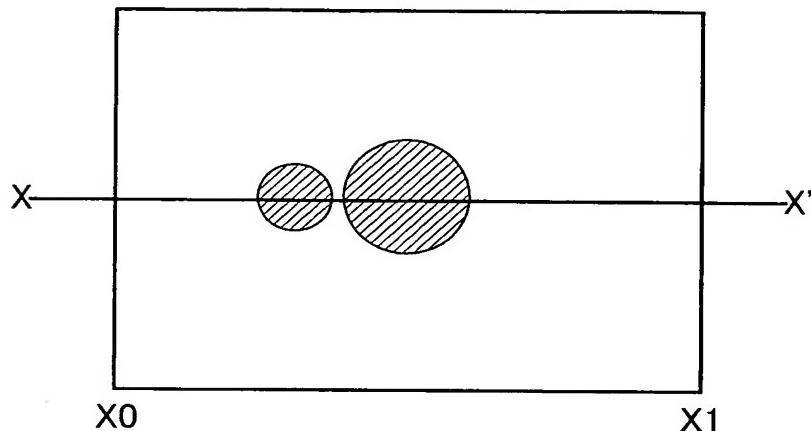


FIG.26A

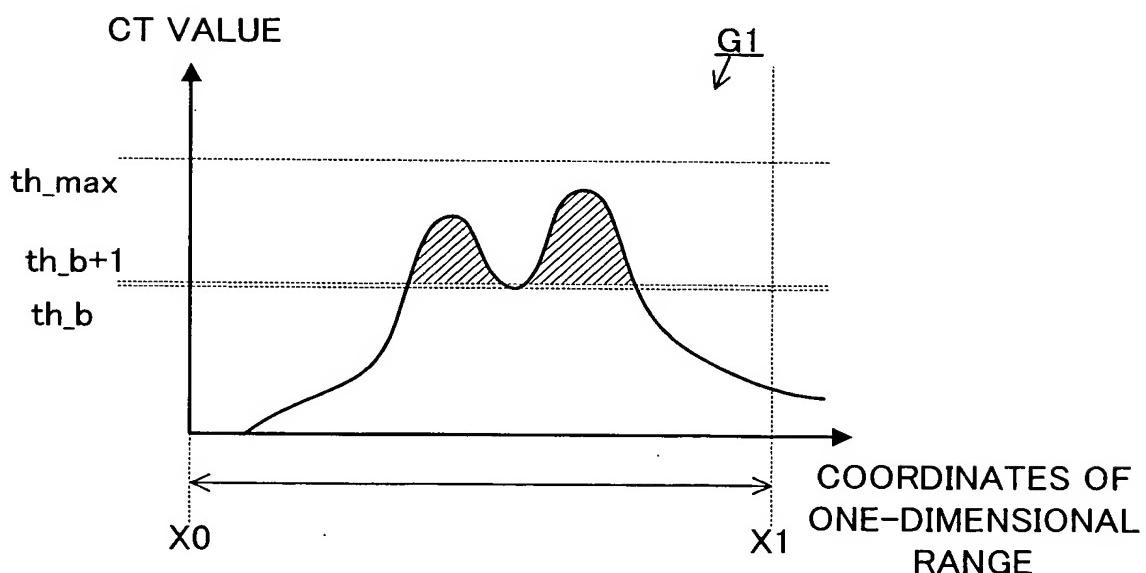


FIG.26B

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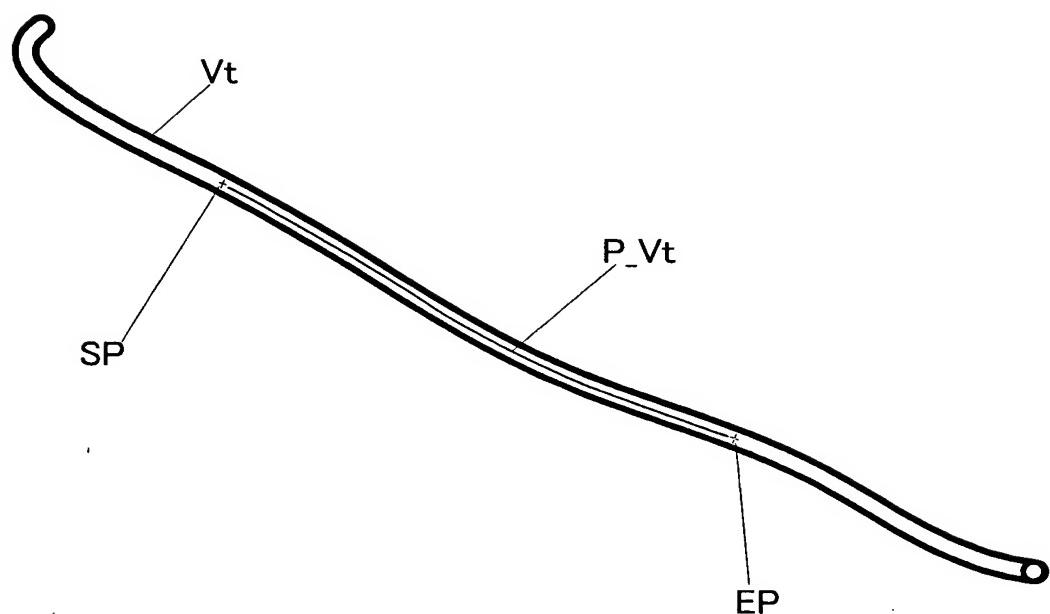


FIG.27

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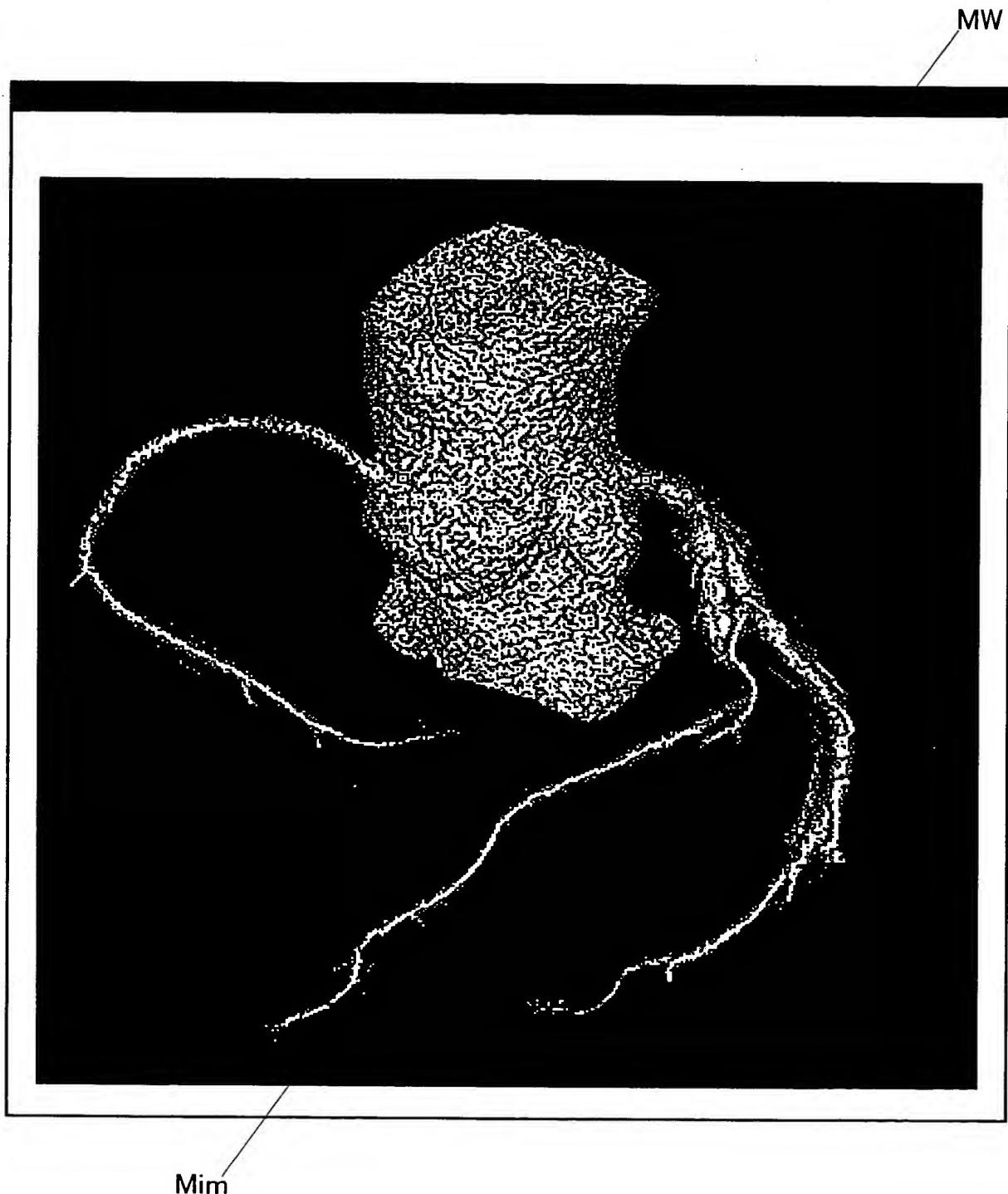


FIG.28

BEST AVAILABLE COPY

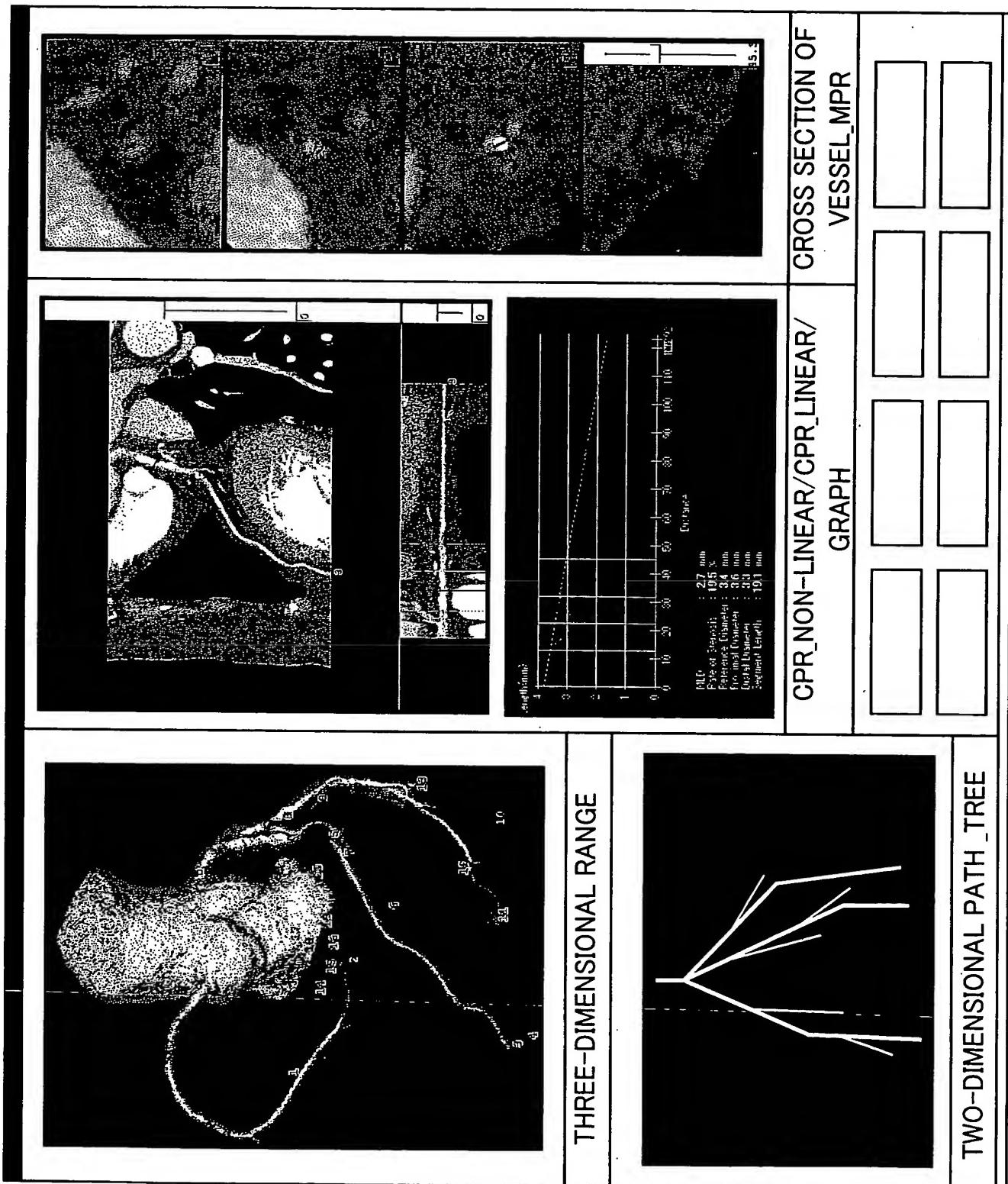


FIG.29

BEST AVAILABLE COPY

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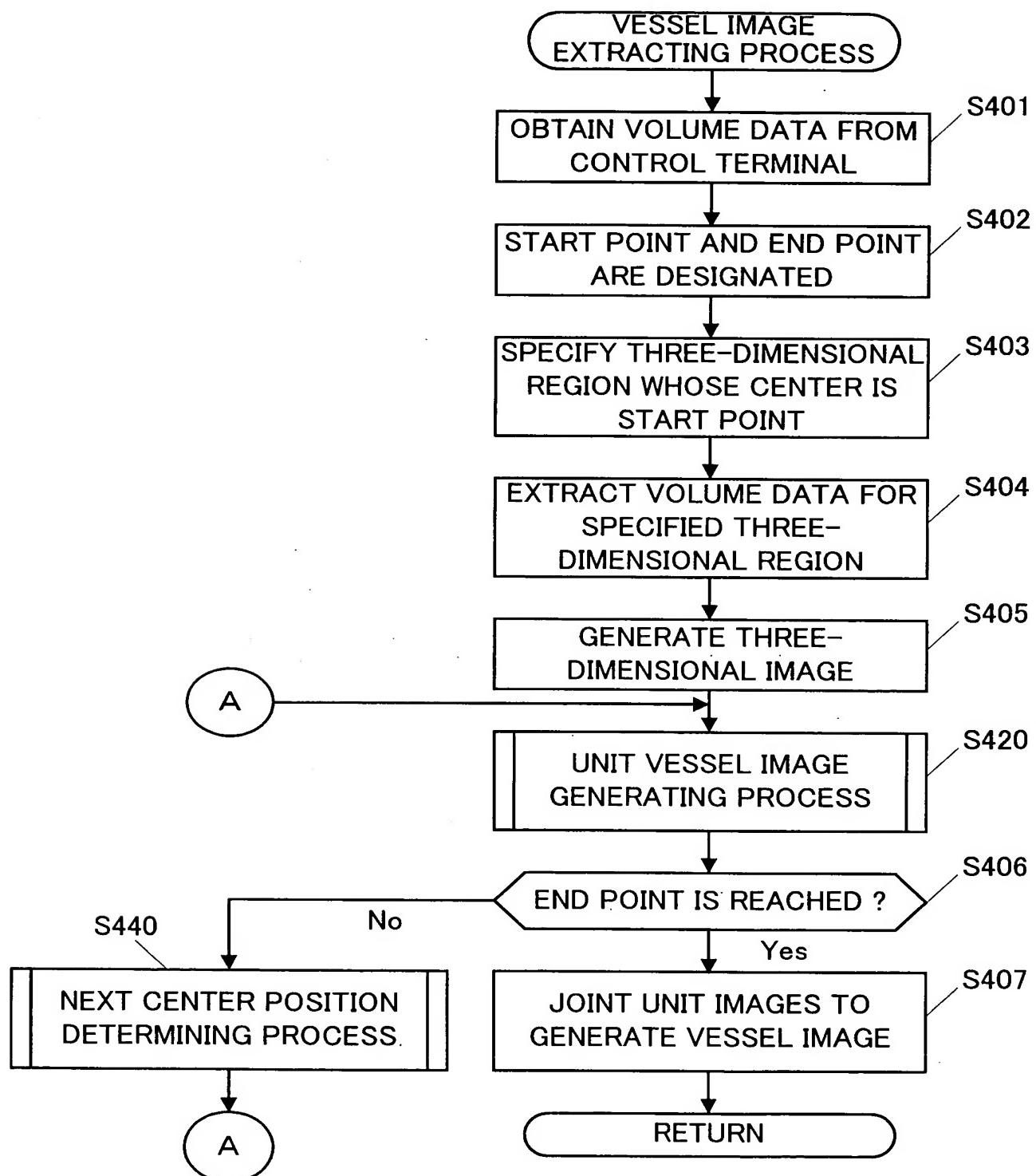


FIG.30

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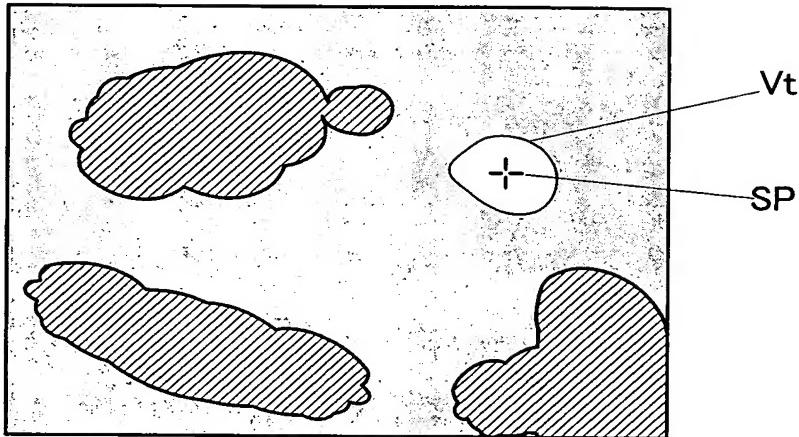


FIG.31A

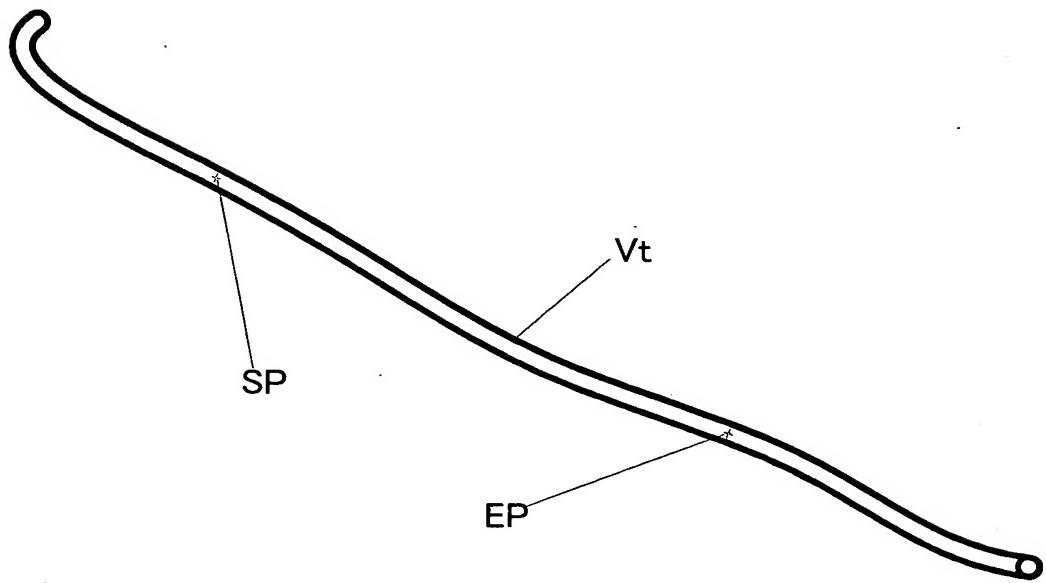


FIG.31B

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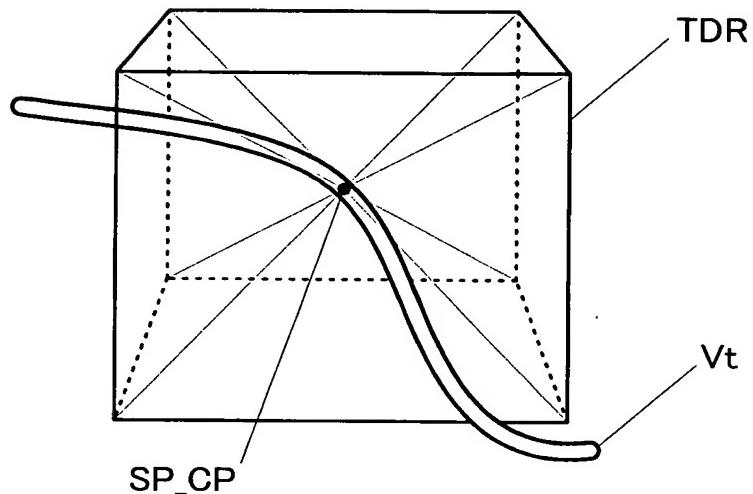


FIG.32A

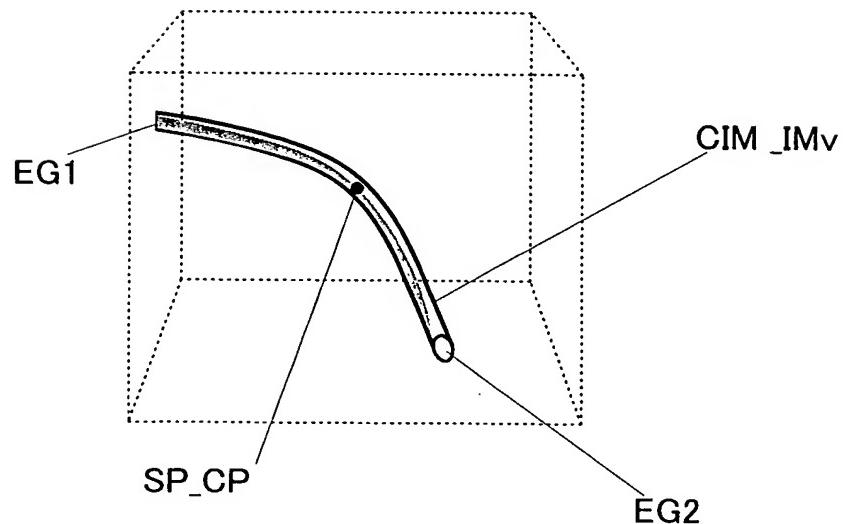


FIG.32B

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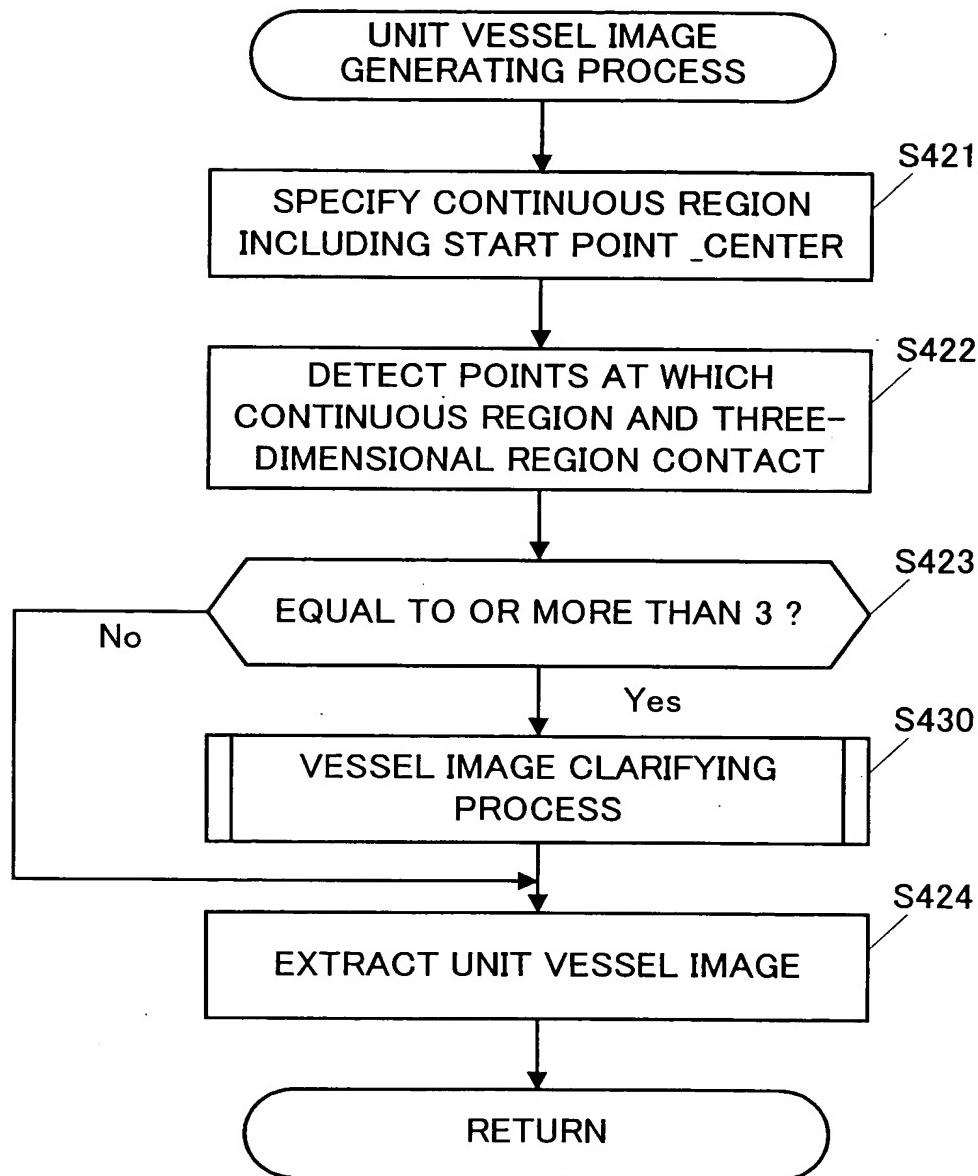


FIG.33

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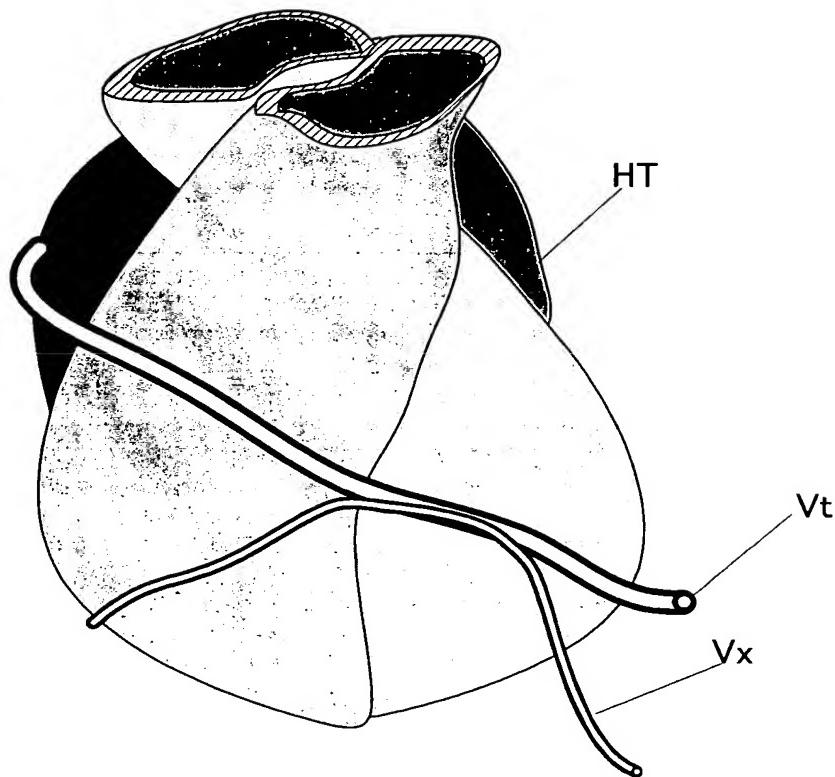


FIG.34

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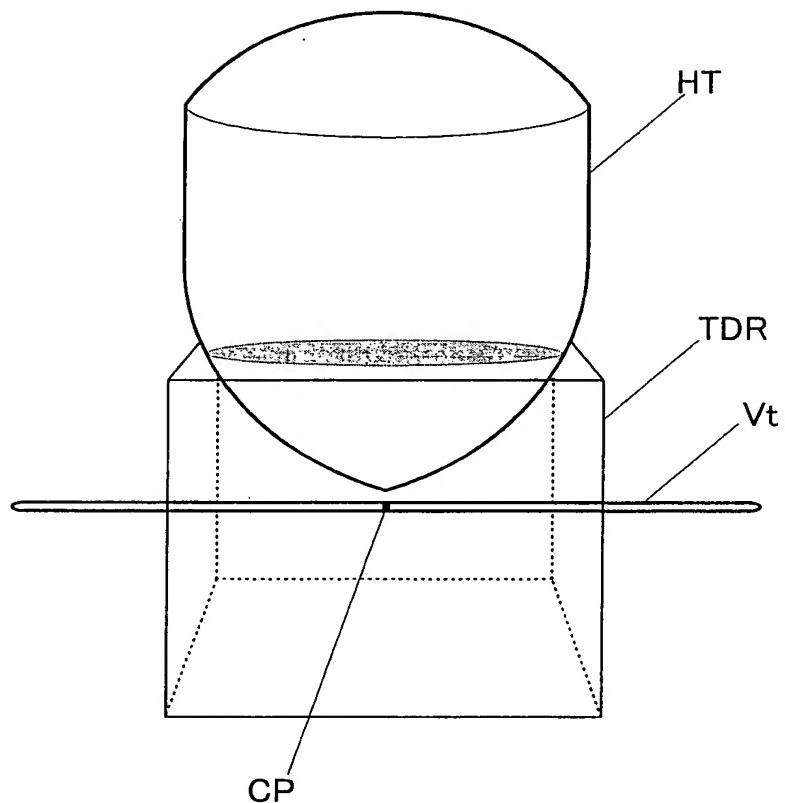


FIG.35A

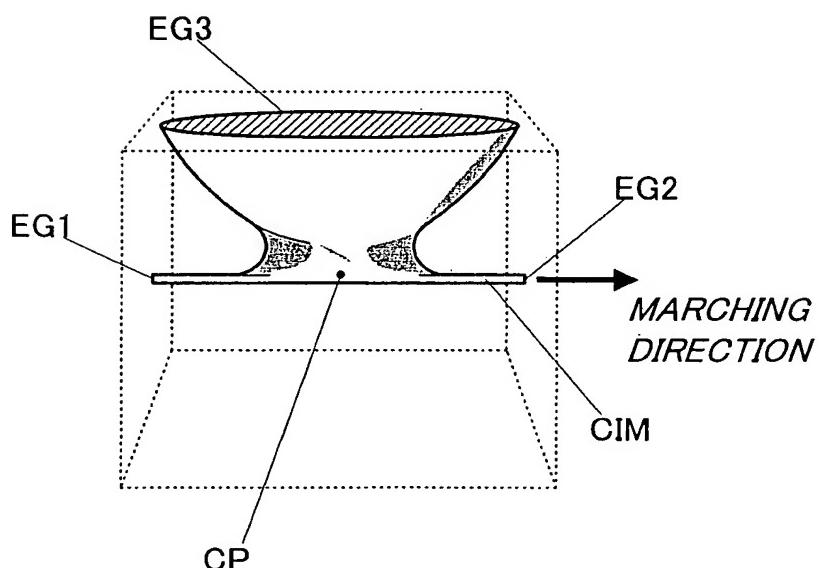


FIG.35B

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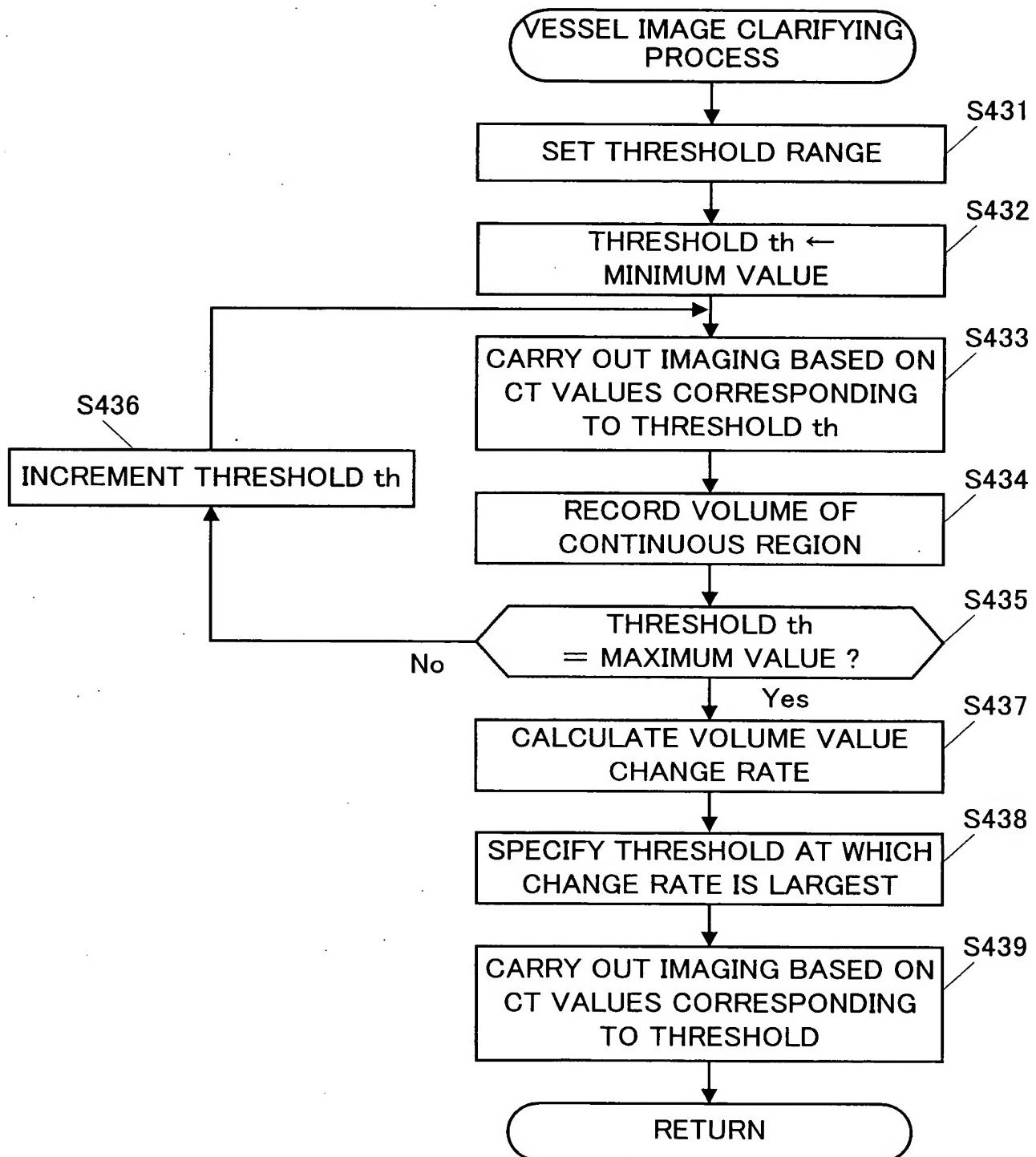


FIG.36

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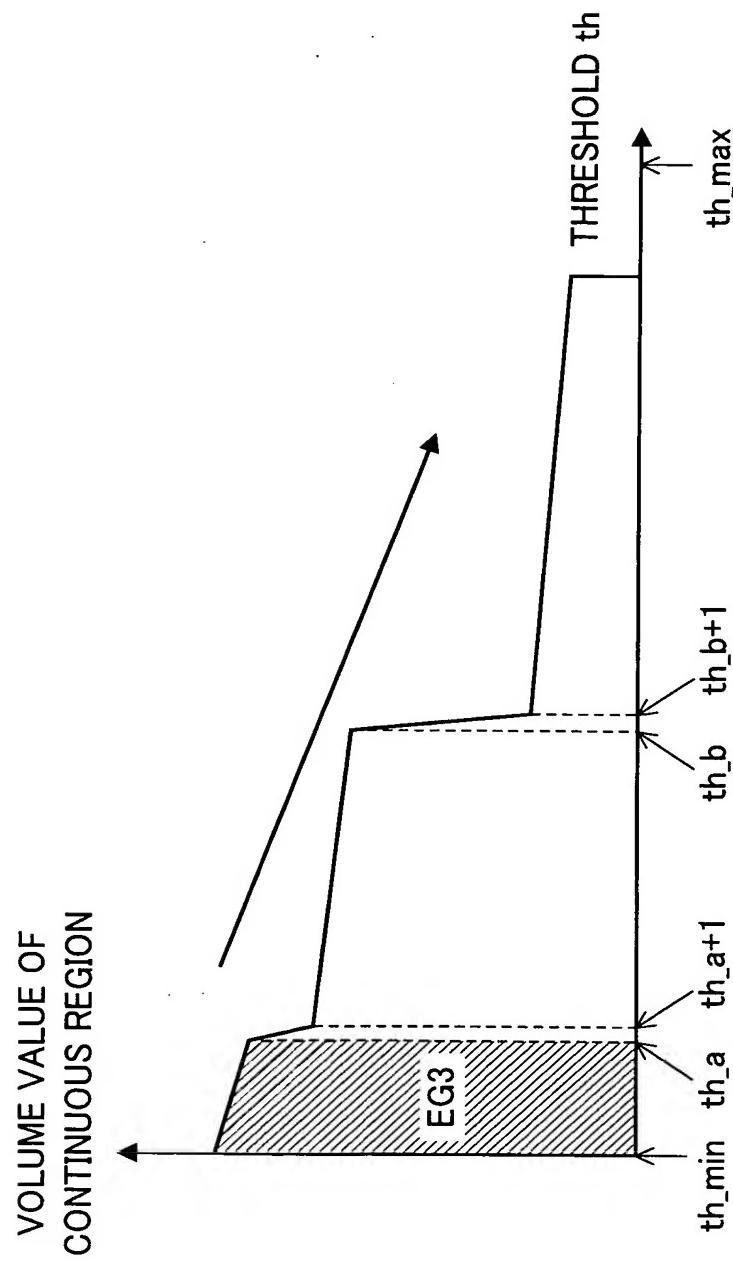


FIG.37

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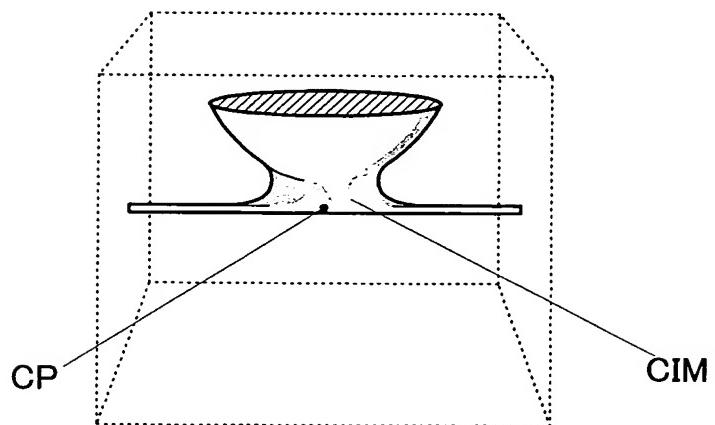


FIG.38A

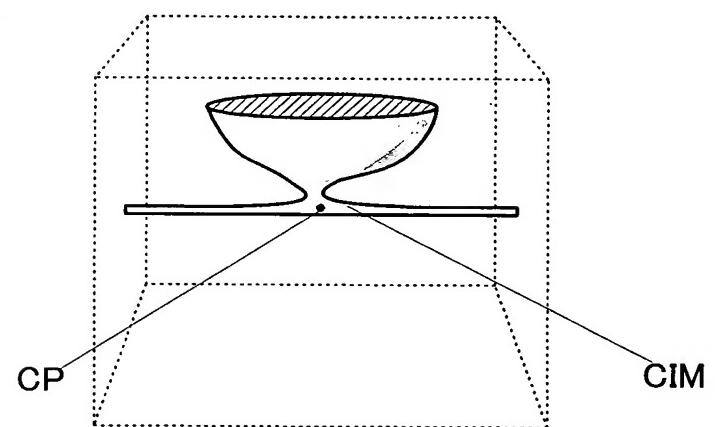


FIG.38B

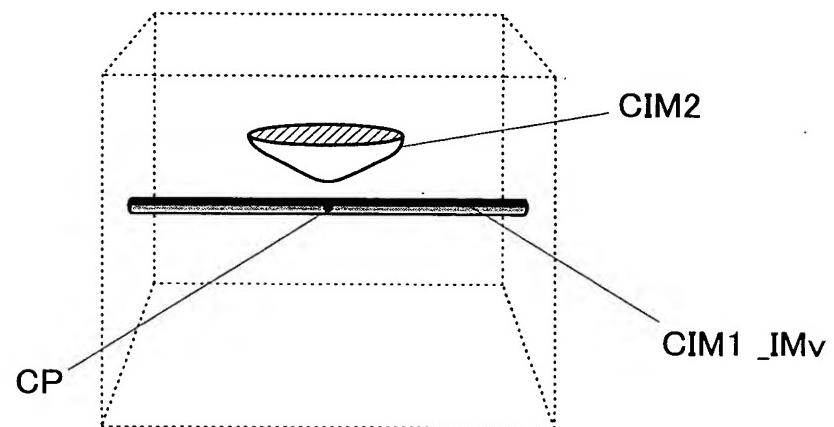


FIG.38C

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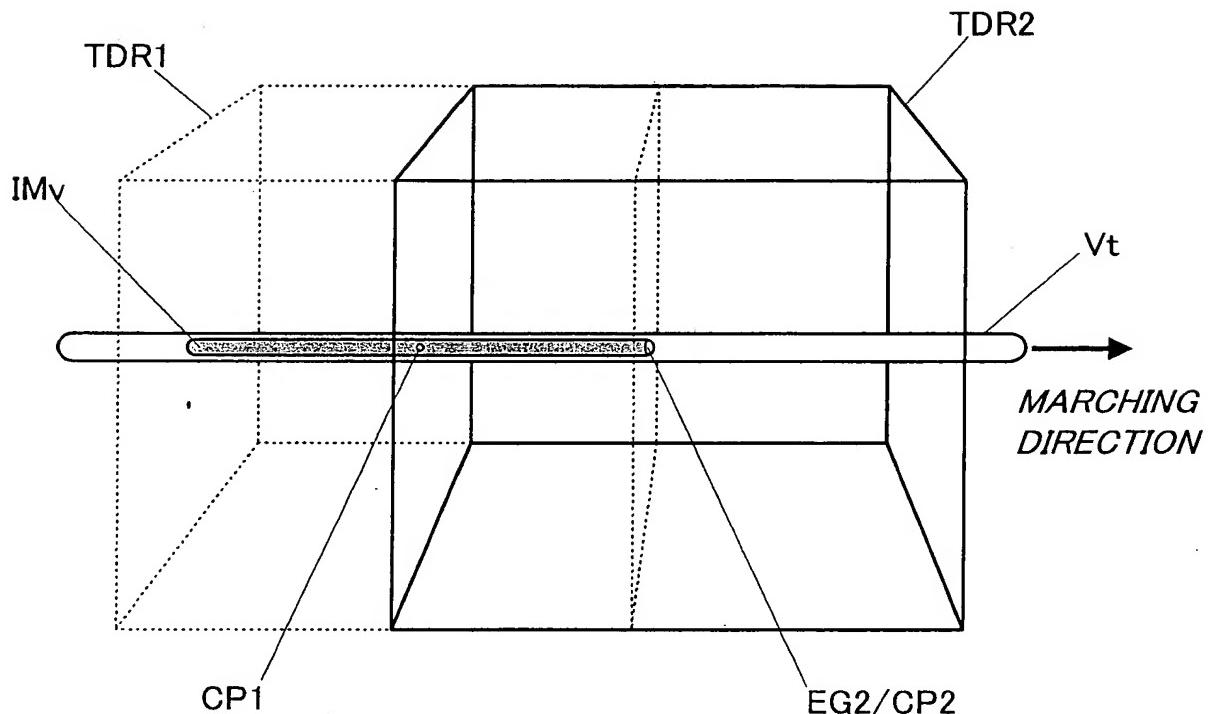


FIG.39A

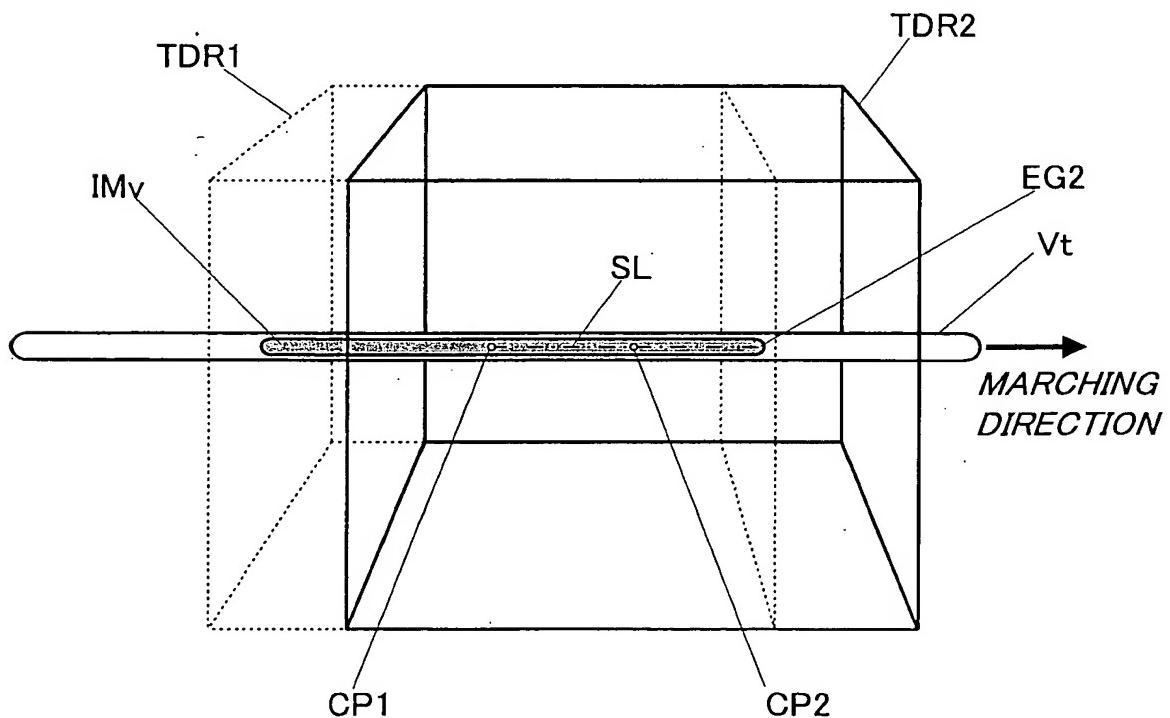


FIG.39B

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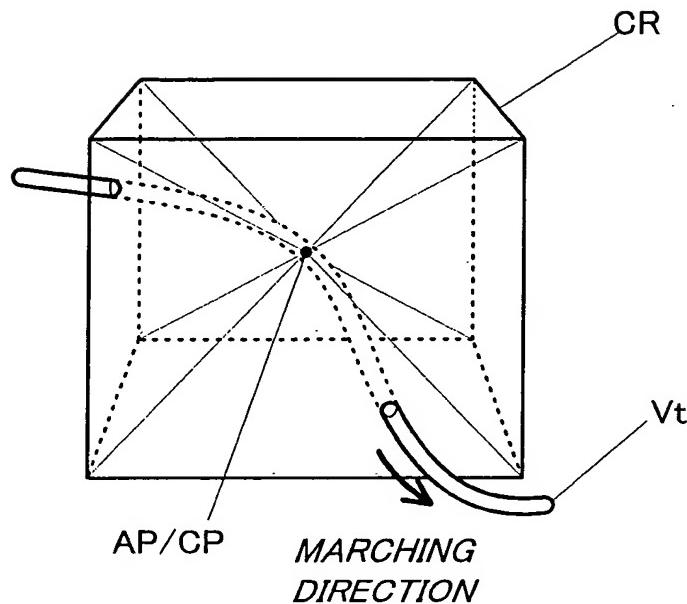


FIG.40A

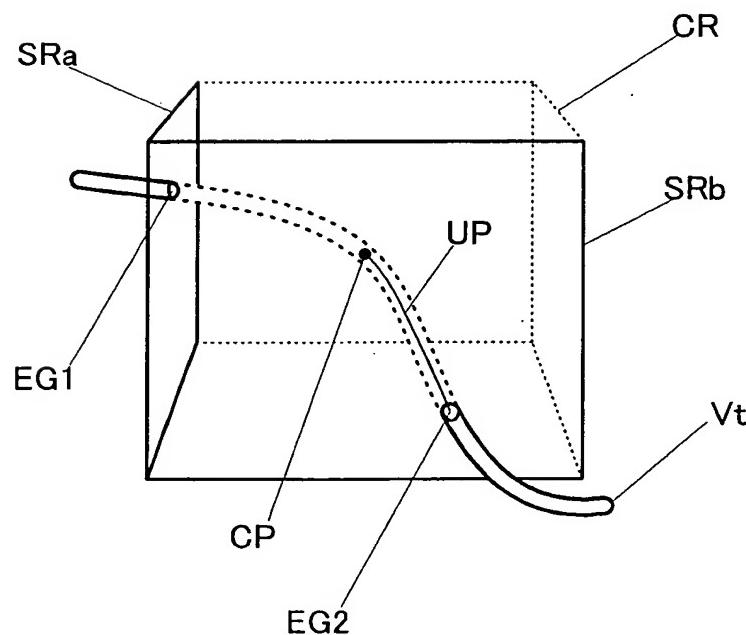


FIG.40B

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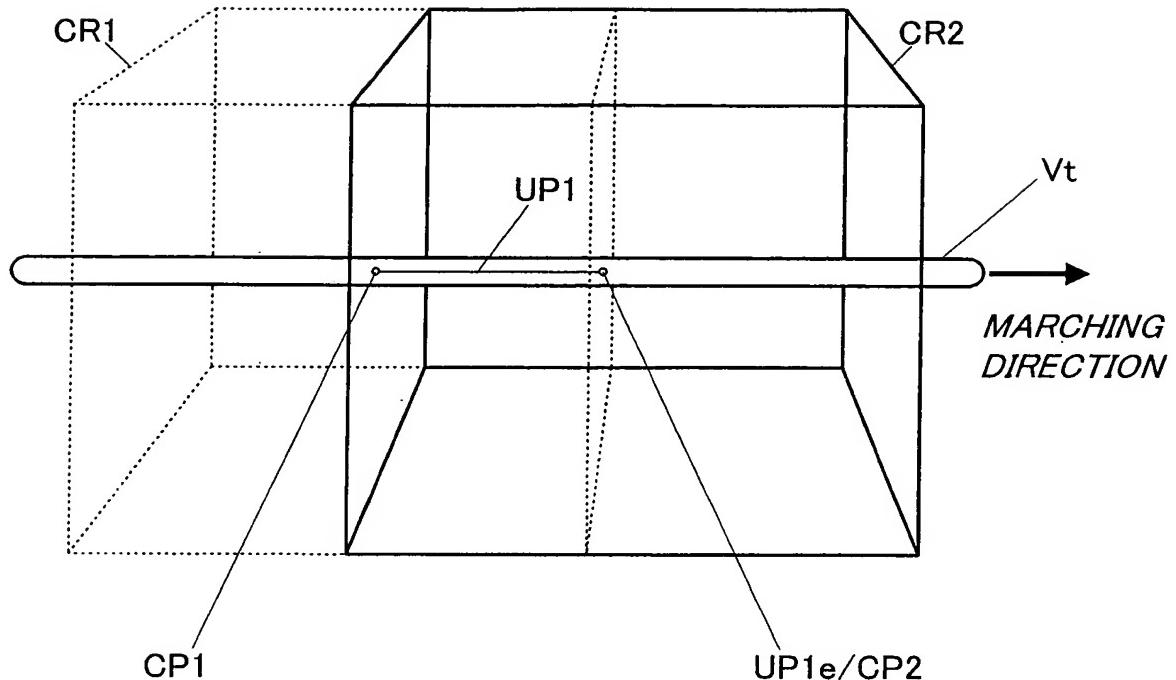


FIG.41A

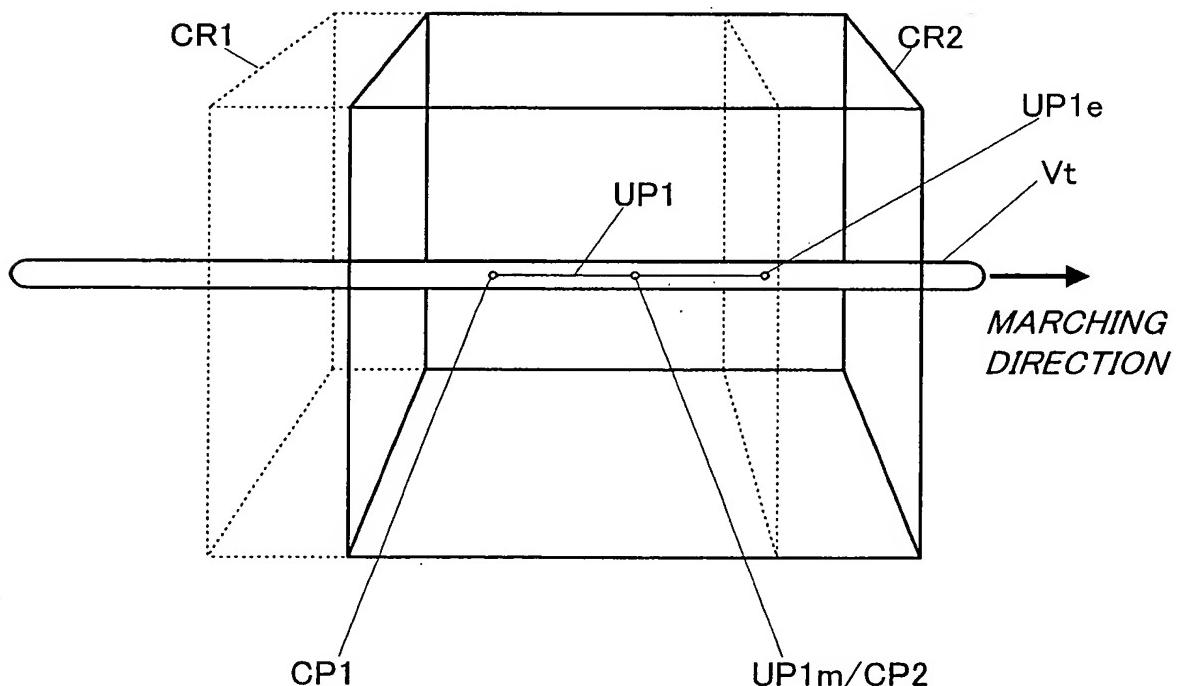


FIG.41B

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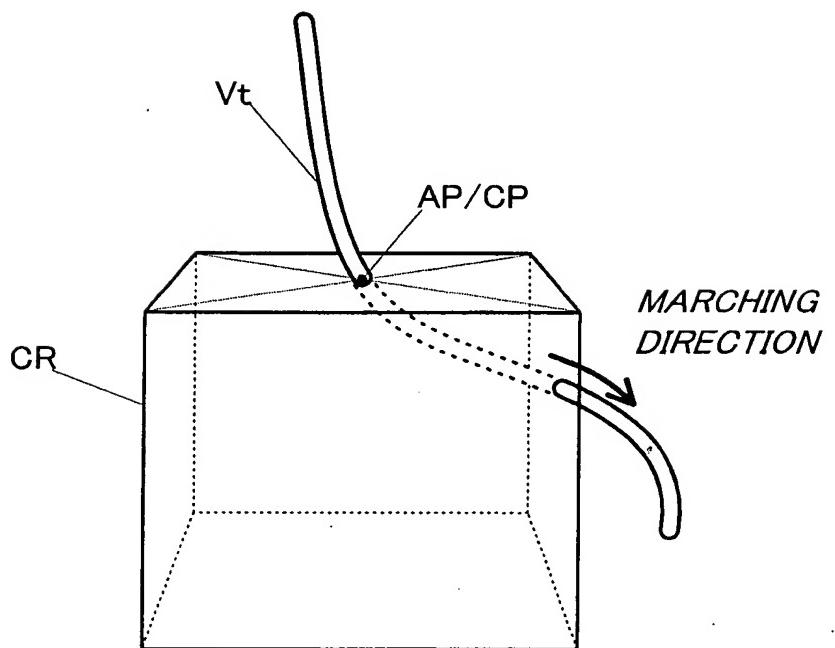


FIG.42A

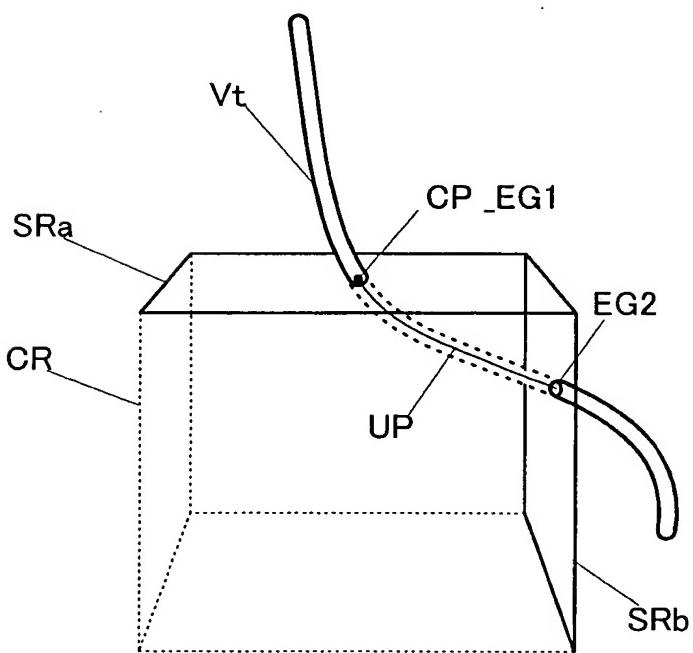


FIG.42B

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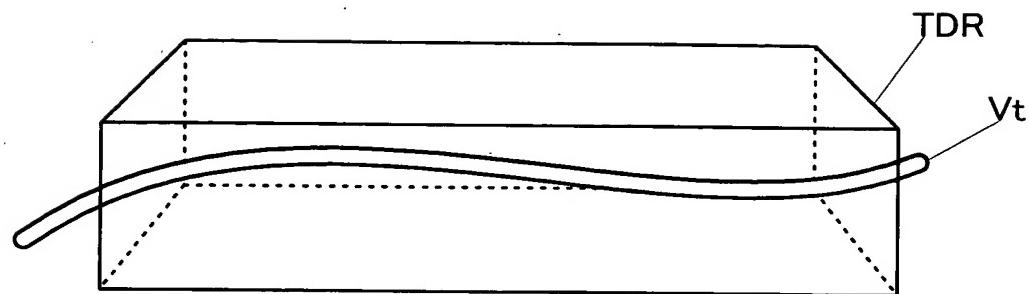


FIG.43A

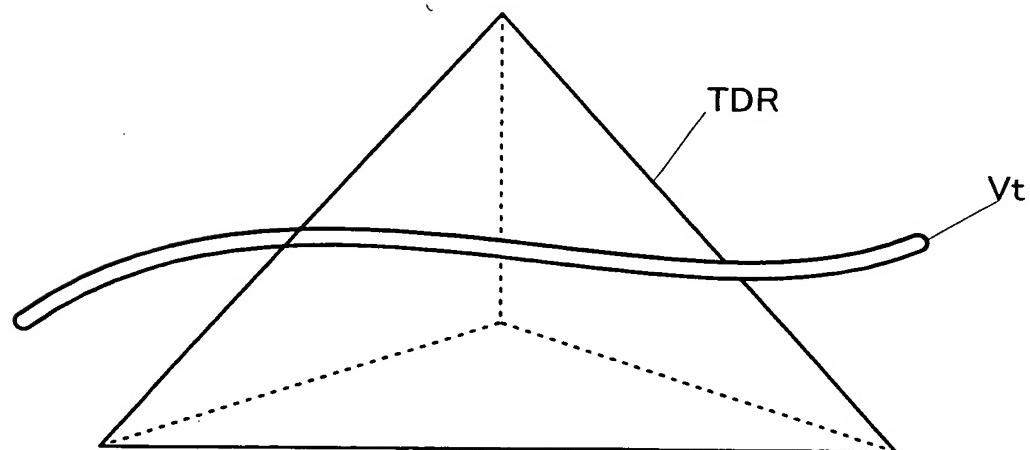


FIG.43B

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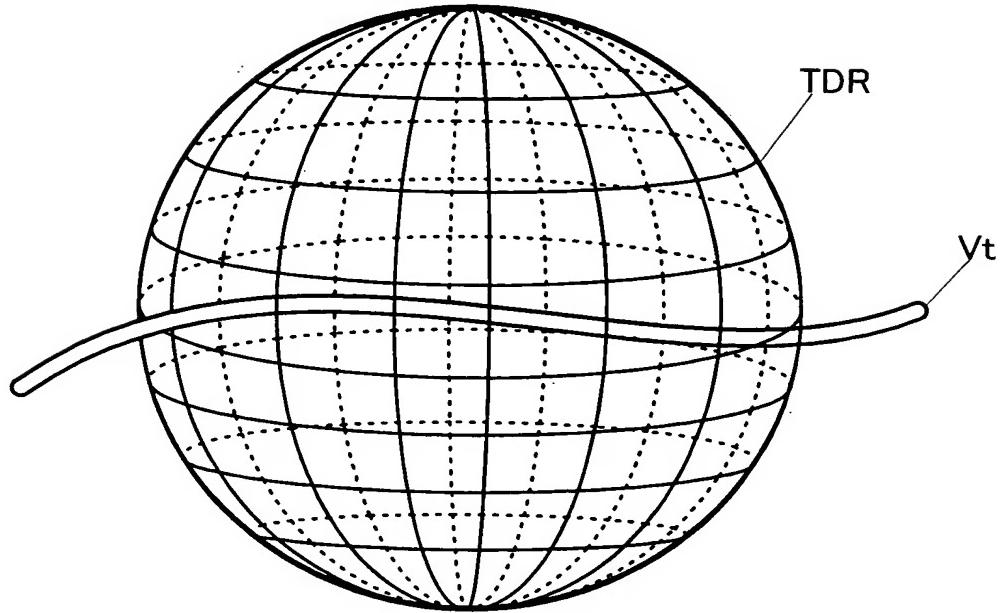


FIG.44A

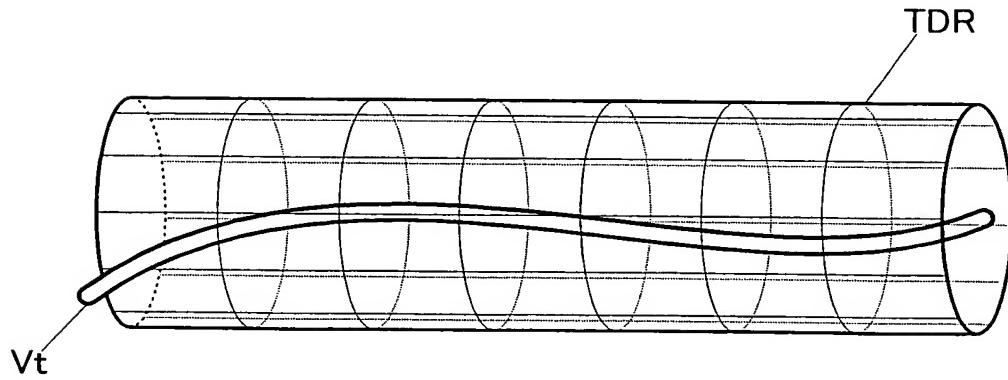


FIG.44B